

Appendix Test Data(Mainboard)

Report No.:	1812C50653612501-01	Test Sample No.:	1-2-2
Start Test Date:	2025-12-16	Finish Test Date:	2025-12-16
Test Engineer:	<i>Alex Peng</i>	Auditor:	<i>Justin Feng</i>
Temperature:	23.8°C	Relative Humidity:	42%
Pressure:	101kPa		

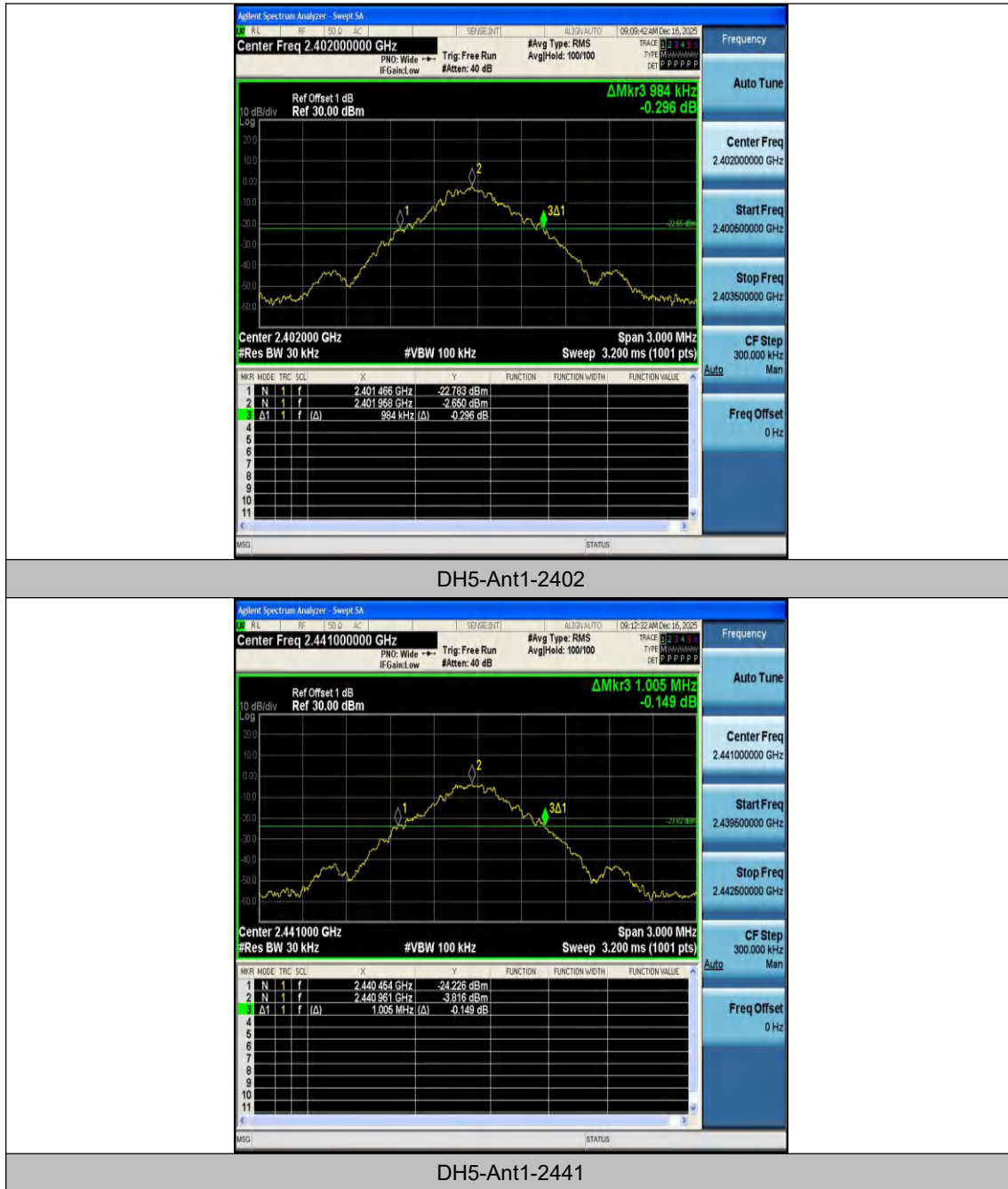


Appendix A: 20dB Bandwidth

Test Result

Test Mode	Antenna	Frequency [MHz]	20db EBW[MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
DH5	Ant1	2402	0.984	2401.466	2402.450	---	---
DH5	Ant1	2441	1.005	2440.454	2441.459	---	---
DH5	Ant1	2480	1.020	2479.436	2480.456	---	---
2DH5	Ant1	2402	1.278	2401.334	2402.612	---	---
2DH5	Ant1	2441	1.323	2440.301	2441.624	---	---
2DH5	Ant1	2480	1.335	2479.295	2480.630	---	---
3DH5	Ant1	2402	1.284	2401.316	2402.600	---	---
3DH5	Ant1	2441	1.305	2440.316	2441.621	---	---
3DH5	Ant1	2480	1.296	2479.319	2480.615	---	---

Test Graphs

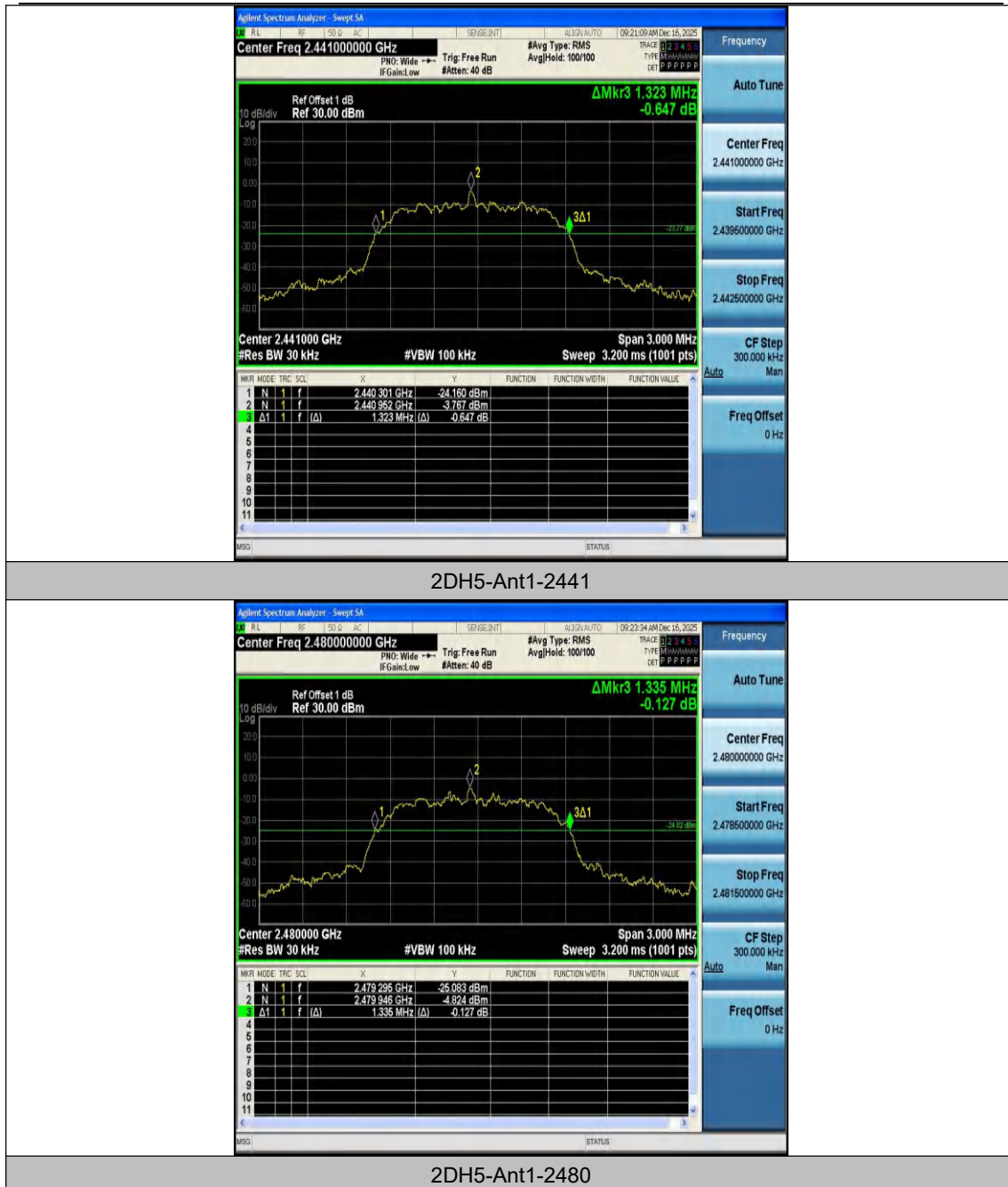


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3DH5-Ant1-2480

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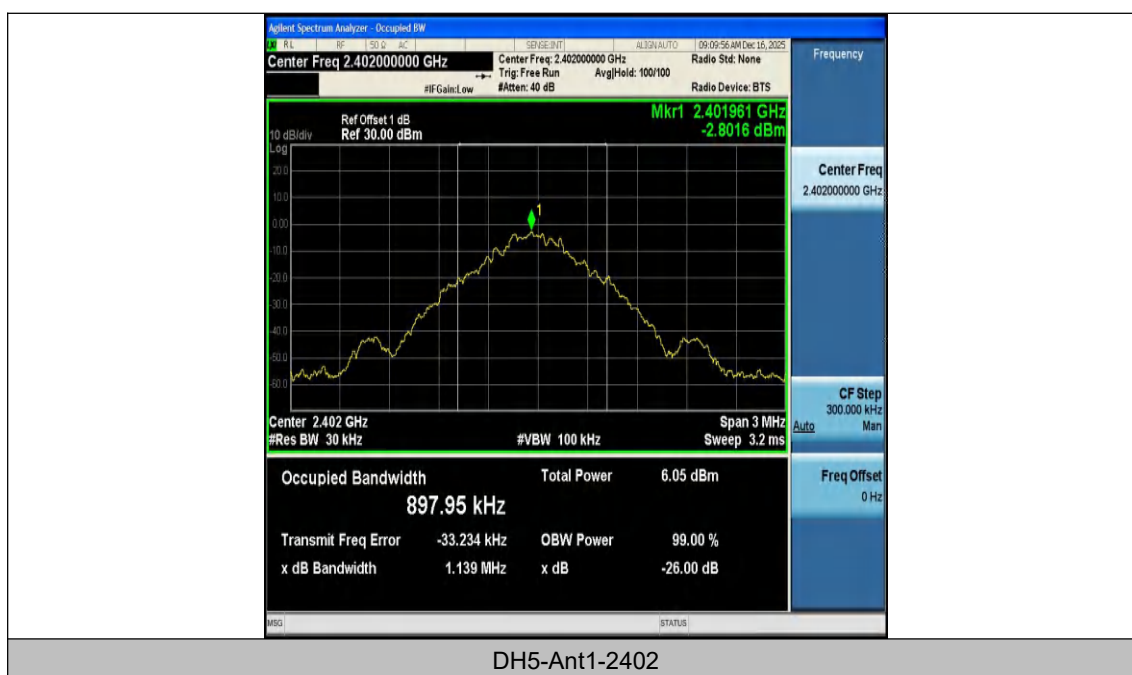
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Appendix B: 99% Occupied Bandwidth

Test Result

Test Mode	Antenna	Frequency [MHz]	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
DH5	Ant1	2402	0.89795	2401.5178	2402.4157	---	---
DH5	Ant1	2441	0.88833	2440.5231	2441.4115	---	---
DH5	Ant1	2480	0.87801	2479.5218	2480.3999	---	---
2DH5	Ant1	2402	1.1902	2401.3754	2402.5656	---	---
2DH5	Ant1	2441	1.1850	2440.3714	2441.5564	---	---
2DH5	Ant1	2480	1.2002	2479.3691	2480.5693	---	---
3DH5	Ant1	2402	1.1922	2401.3652	2402.5574	---	---
3DH5	Ant1	2441	1.2191	2440.3497	2441.5688	---	---
3DH5	Ant1	2480	1.2248	2479.3510	2480.5758	---	---

Test Graphs





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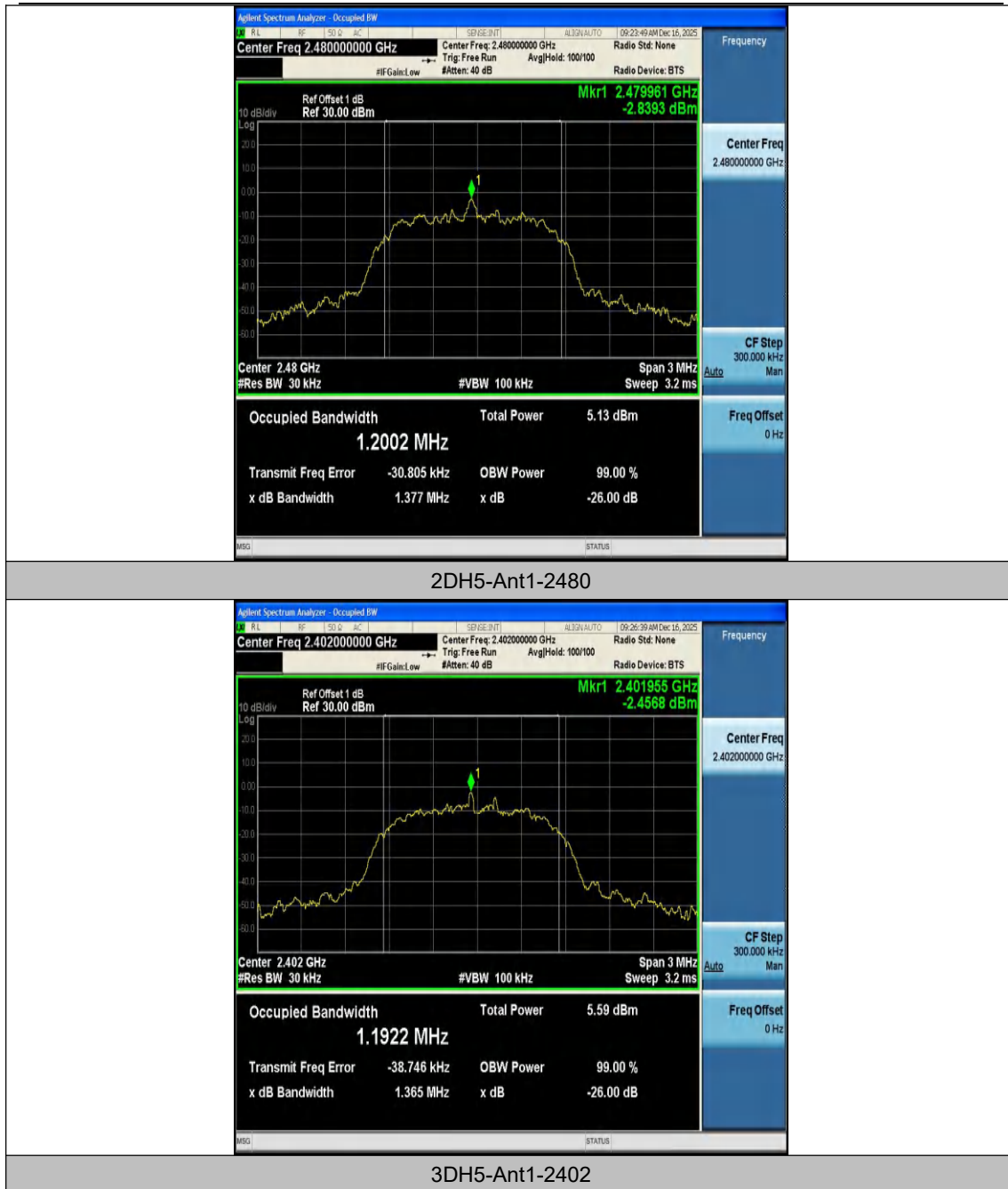
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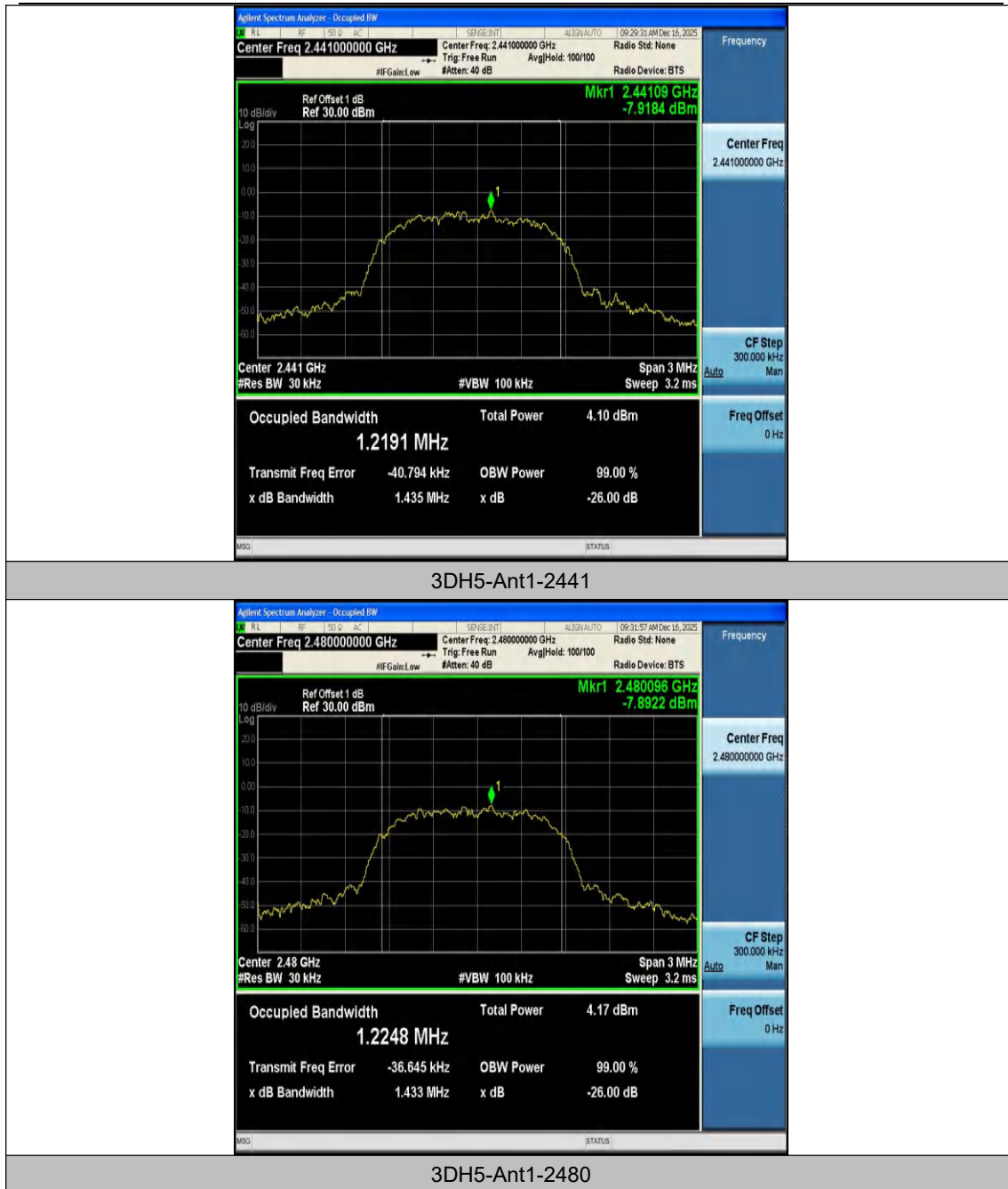
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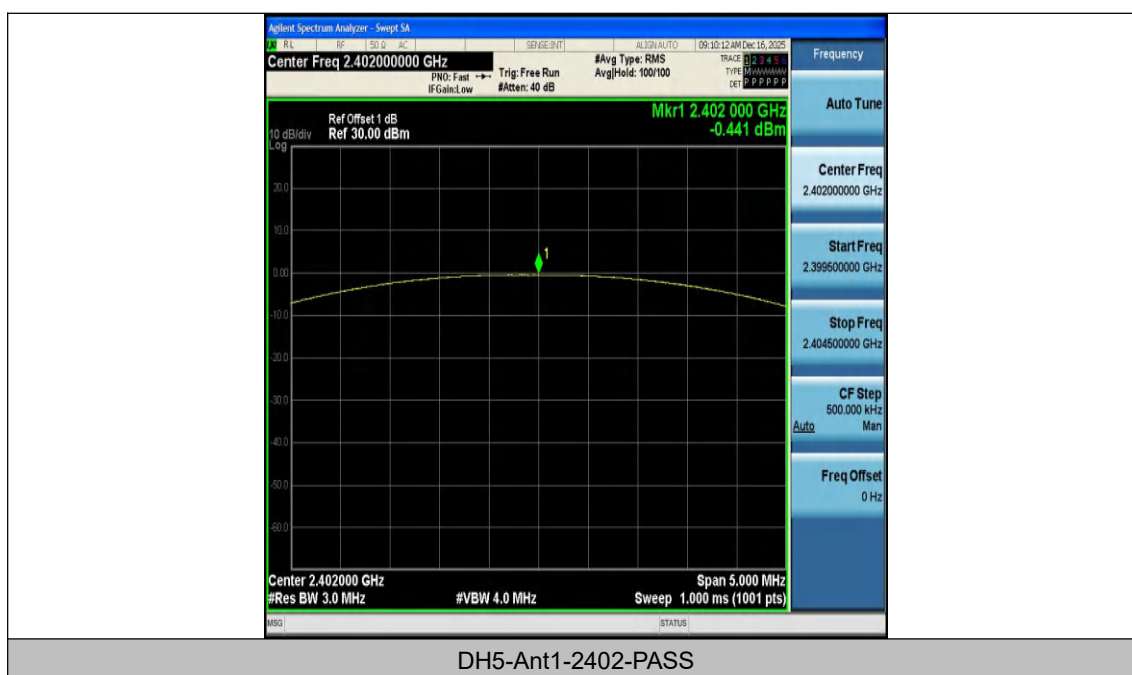
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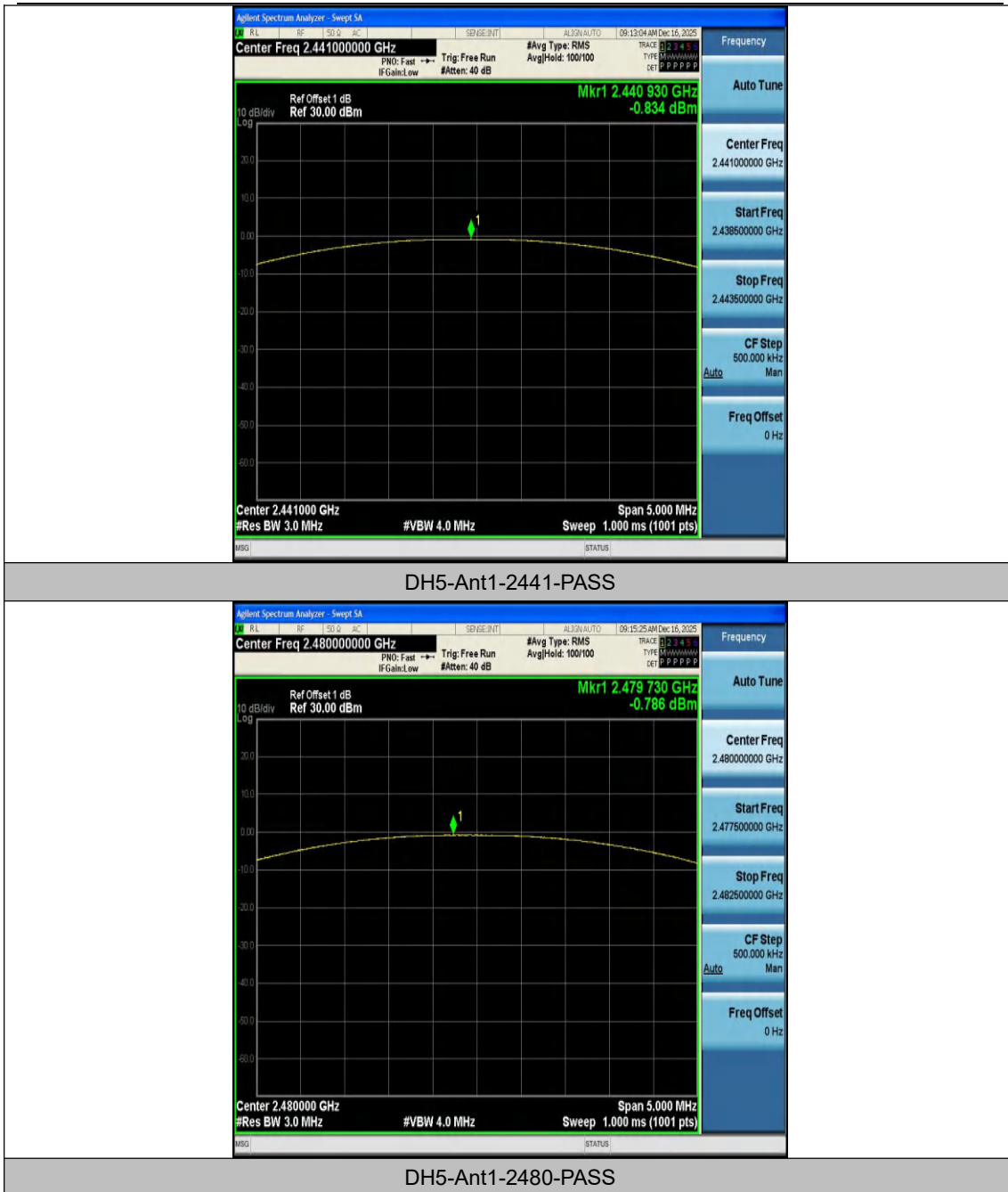
Appendix C: Maximum Conducted Output Power

Test Result Peak

Test Mode	Antenna	Frequency[MHz]	Conducted Peak Power[dBm]	Conducted Limit[dBm]	Verdict
DH5	Ant1	2402	-0.44	≤20.97	PASS
DH5	Ant1	2441	-0.83	≤20.97	PASS
DH5	Ant1	2480	-0.79	≤20.97	PASS
2DH5	Ant1	2402	0.33	≤20.97	PASS
2DH5	Ant1	2441	0.02	≤20.97	PASS
2DH5	Ant1	2480	0.07	≤20.97	PASS
3DH5	Ant1	2402	0.72	≤20.97	PASS
3DH5	Ant1	2441	0.37	≤20.97	PASS
3DH5	Ant1	2480	0.39	≤20.97	PASS

Test Graphs

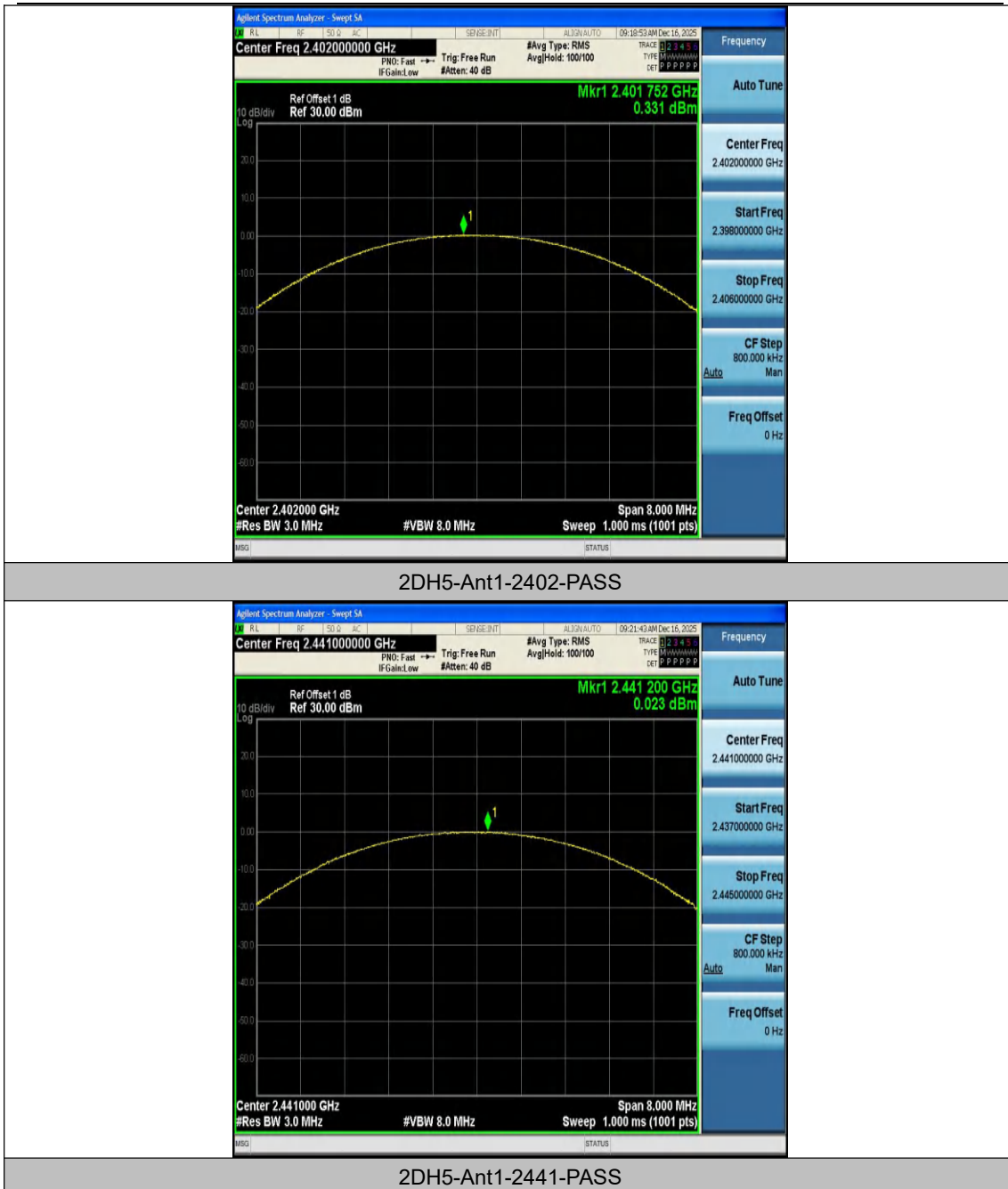




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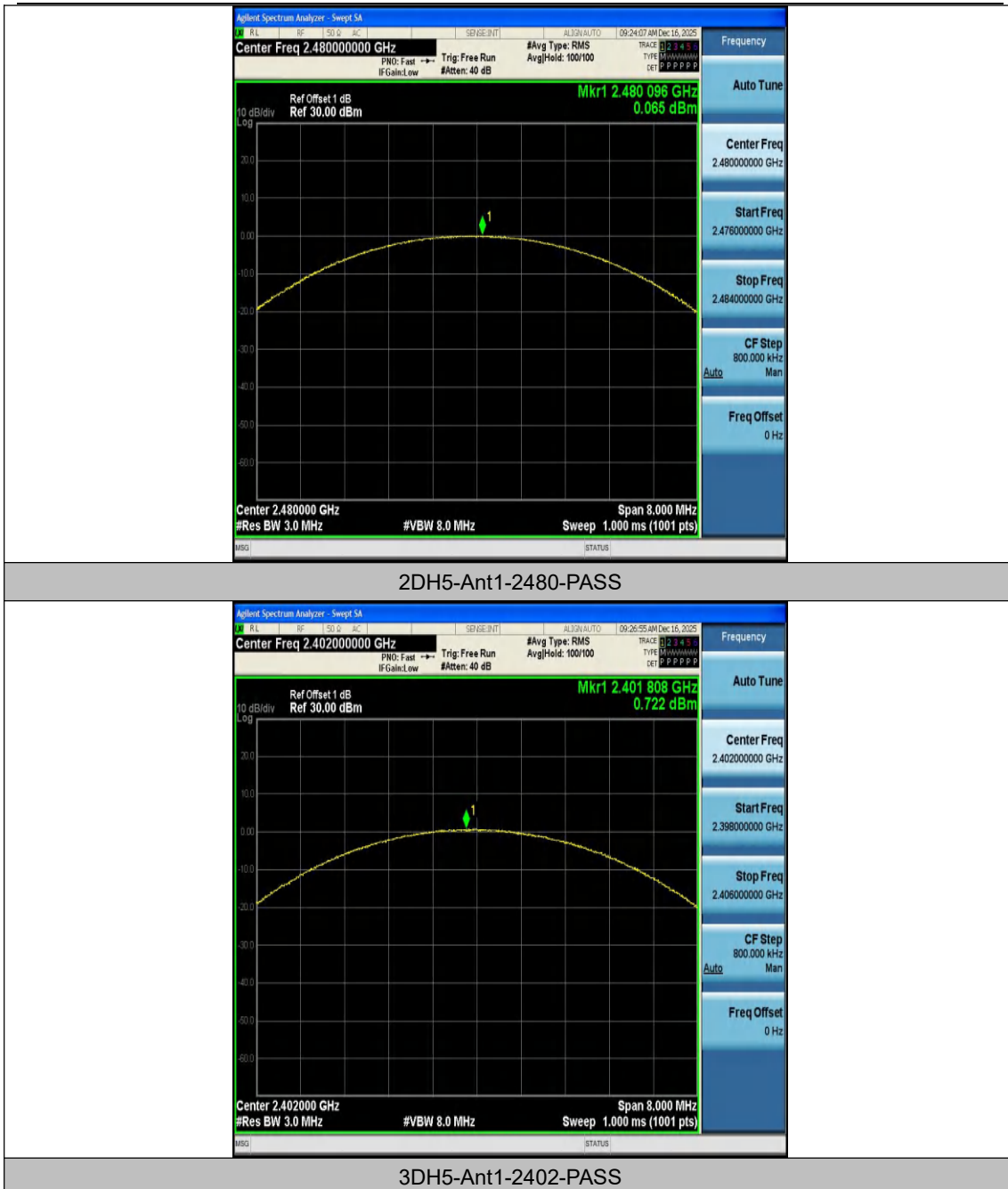
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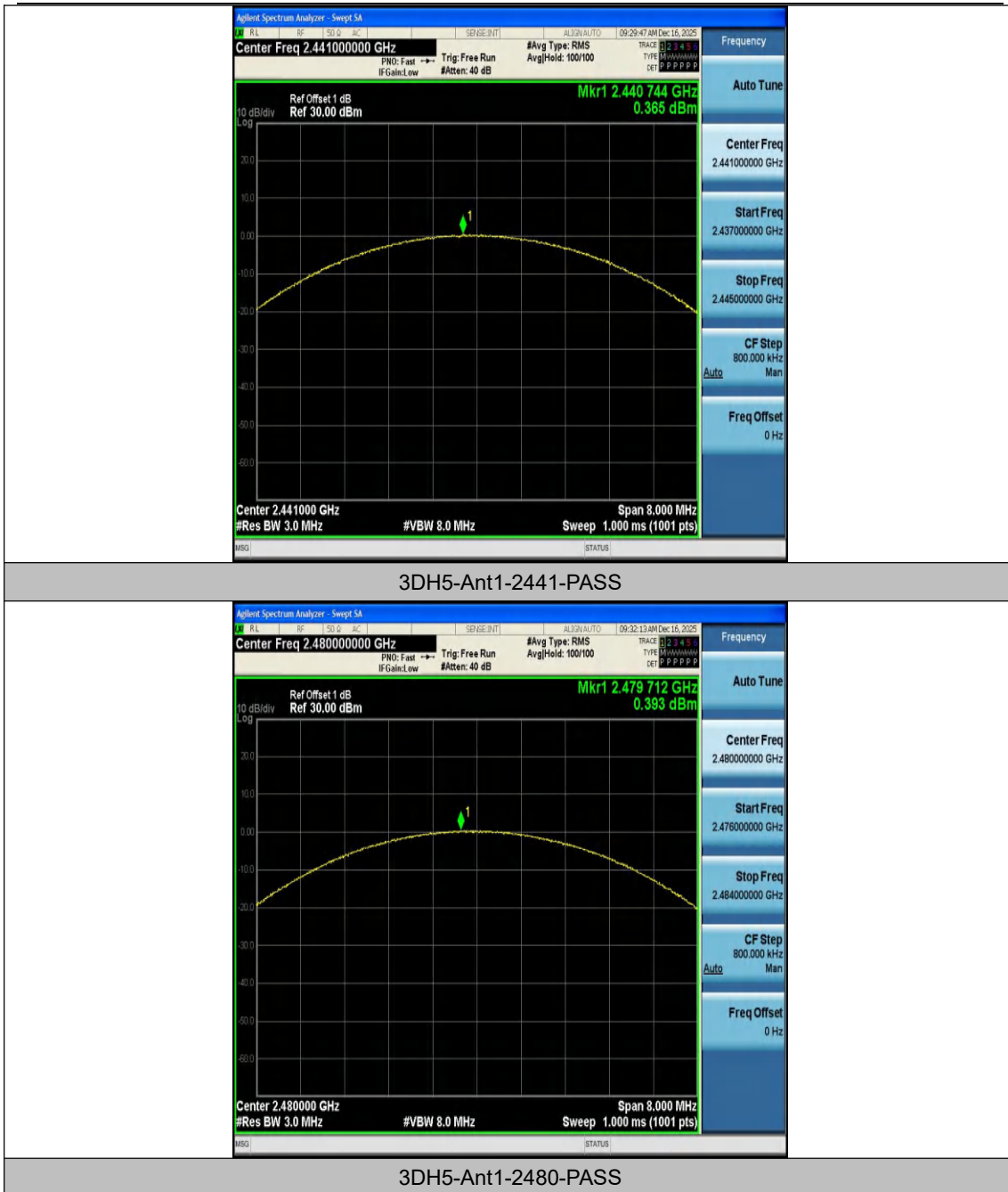
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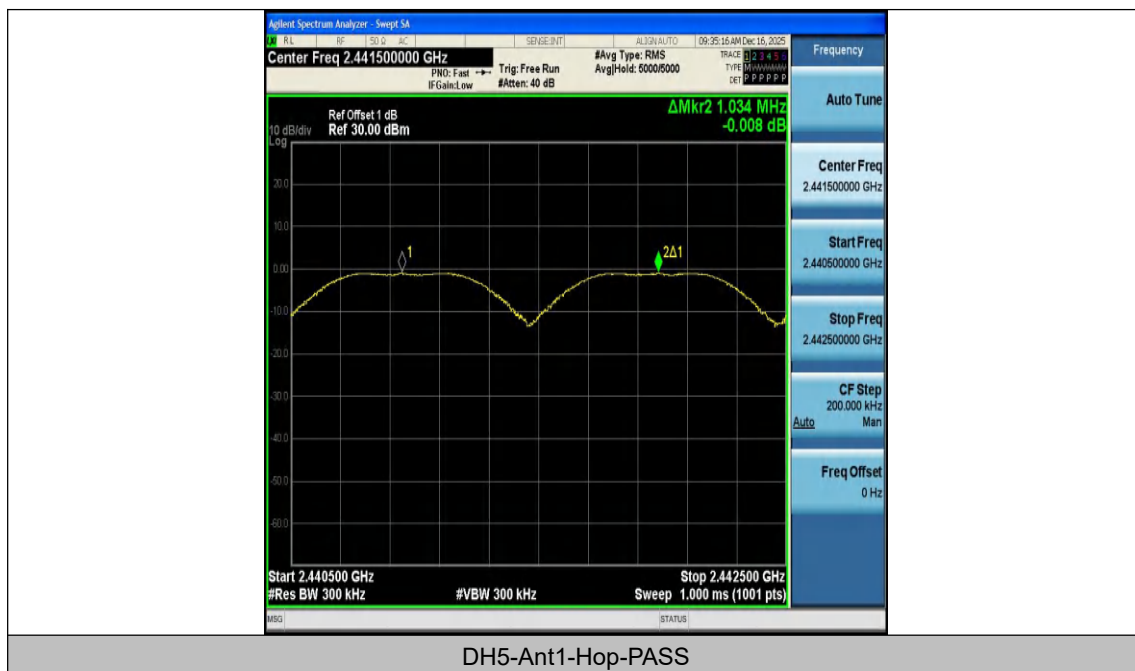
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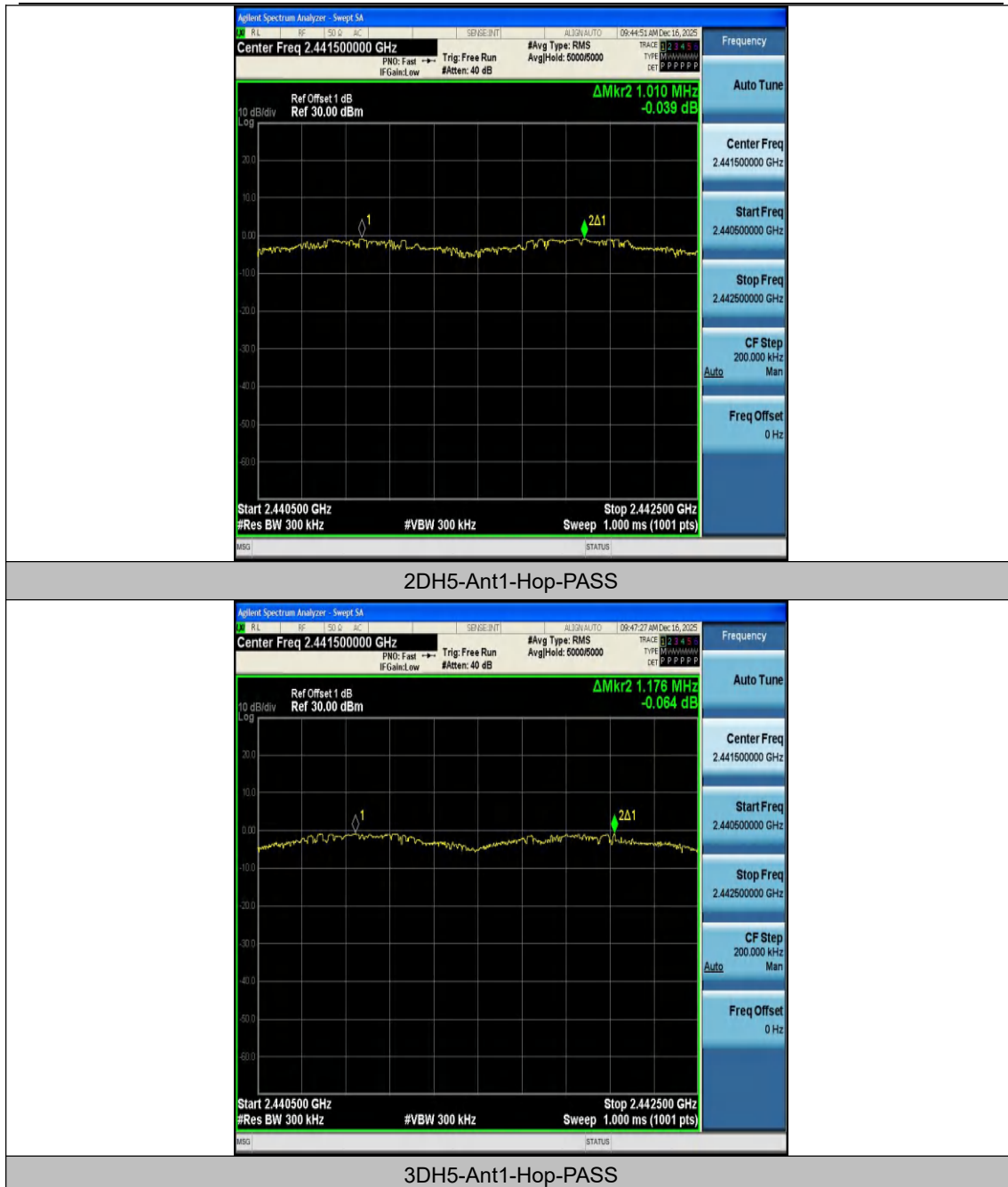
Appendix D: Carrier frequency separation

Test Result

Test Mode	Antenna	Frequency [MHz]	Result [MHz]	Limit[MHz]	Verdict
DH5	Ant1	Hop	1.034	≥0.680	PASS
2DH5	Ant1	Hop	1.01	≥0.890	PASS
3DH5	Ant1	Hop	1.176	≥0.870	PASS

Test Graphs





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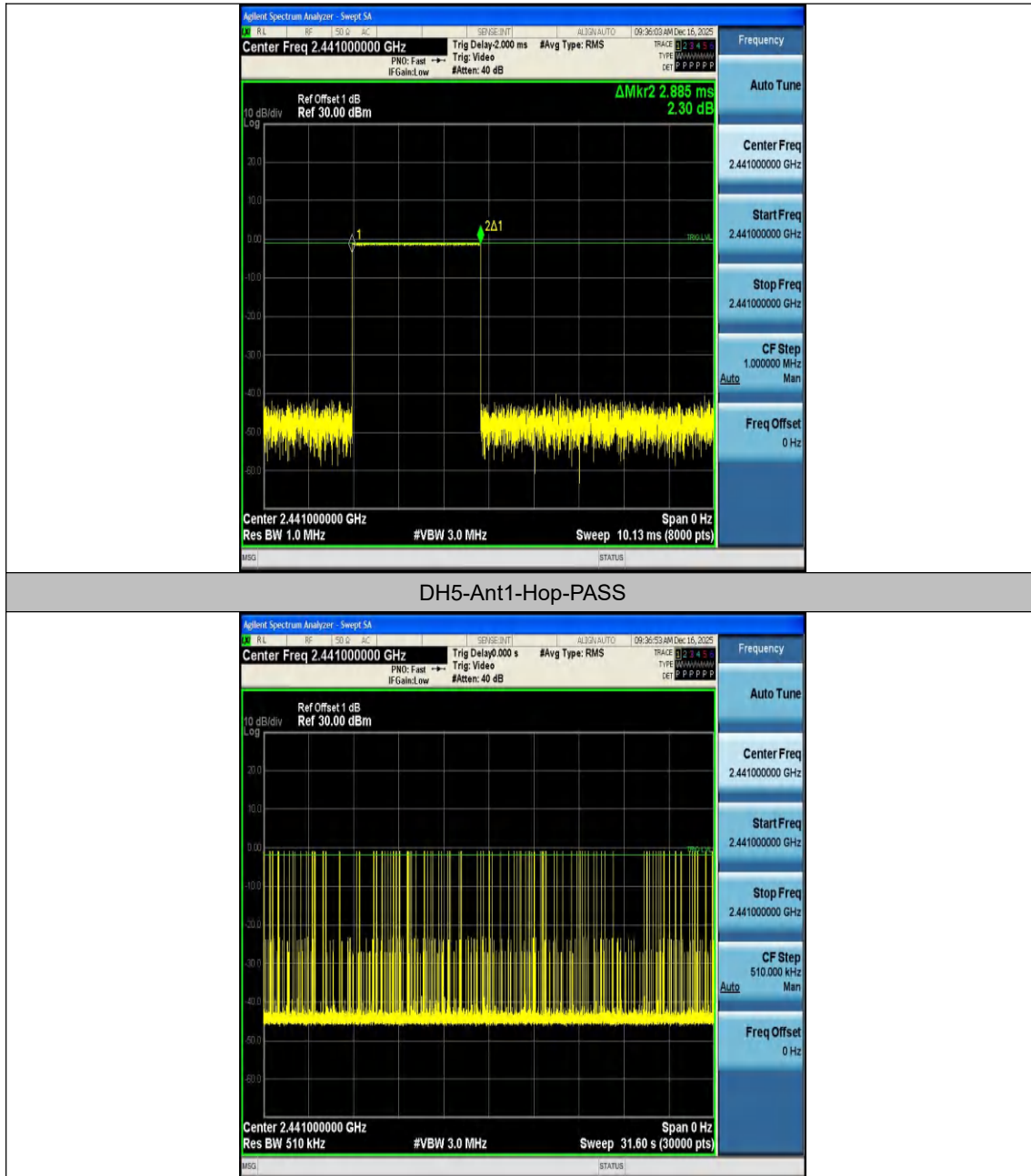
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Appendix E: Dwell Time

Test Result

Test Mode	Antenna	Frequency [MHz]	Burst Width [ms]	Total Hops [Num]	Result [s]	Limit [s]	Verdict
DH5	Ant1	Hop	2.885	120	0.346	≤0.4	PASS
2DH5	Ant1	Hop	2.891	103	0.298	≤0.4	PASS
3DH5	Ant1	Hop	2.893	117	0.338	≤0.4	PASS

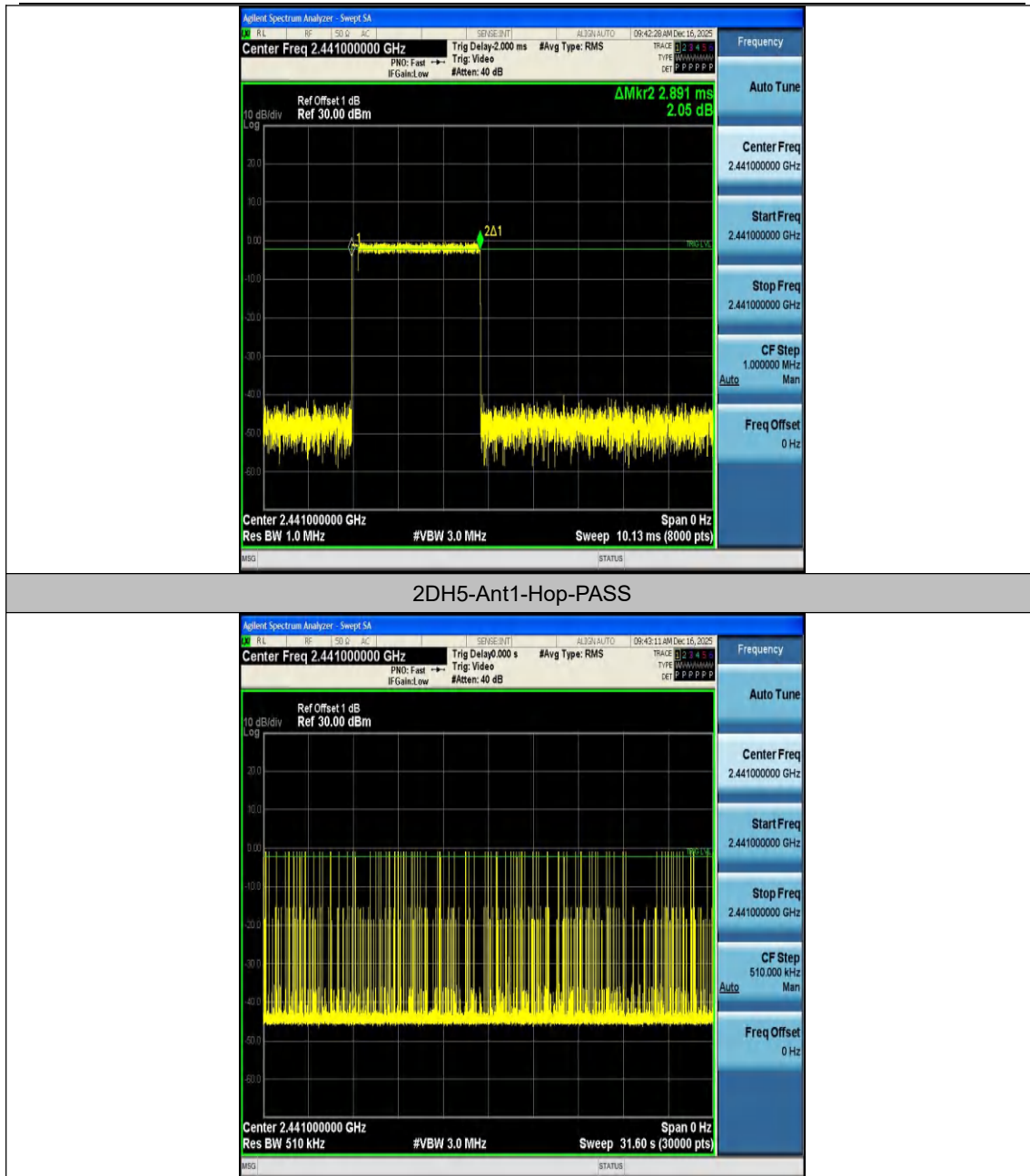
Test Graphs



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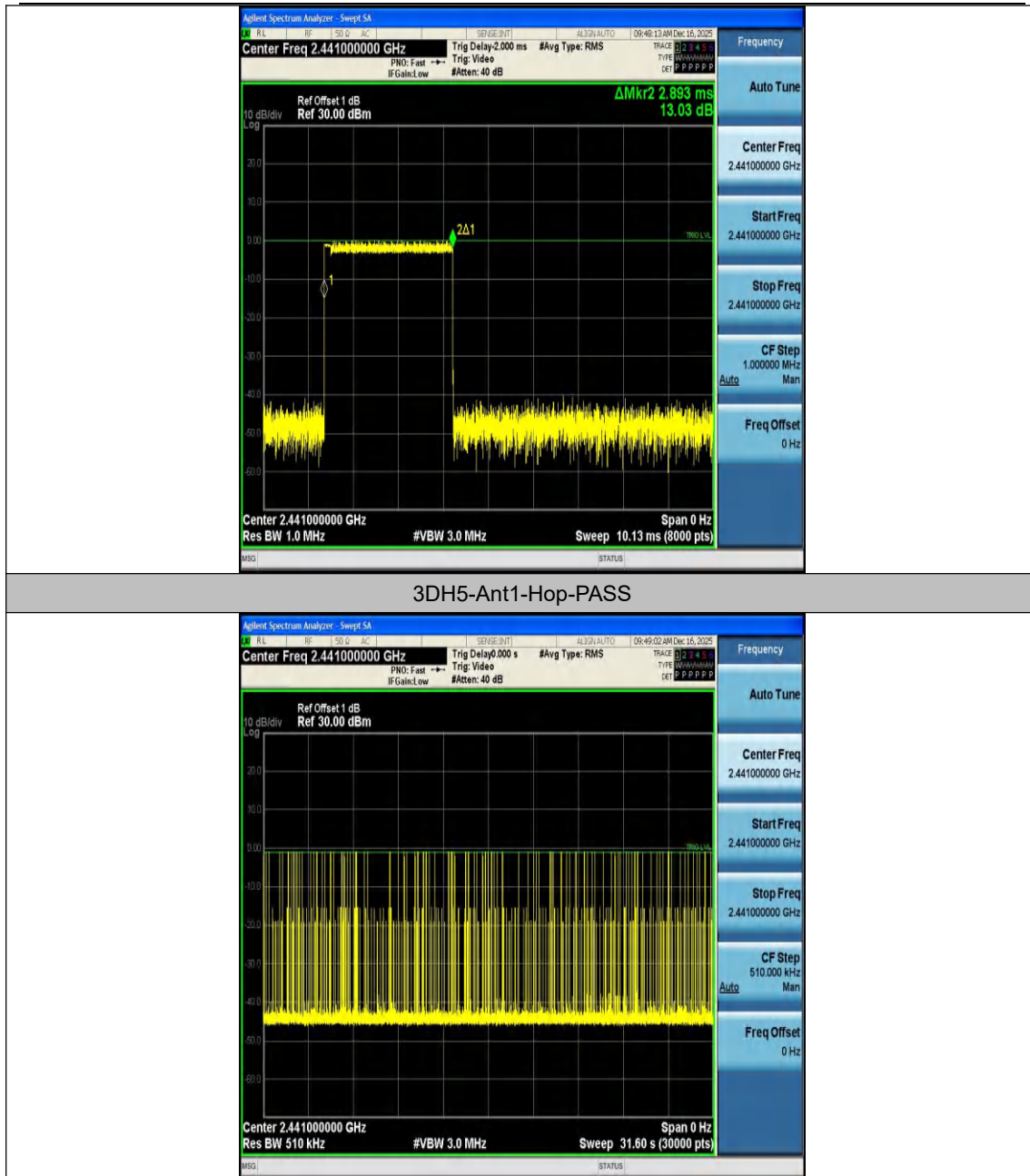
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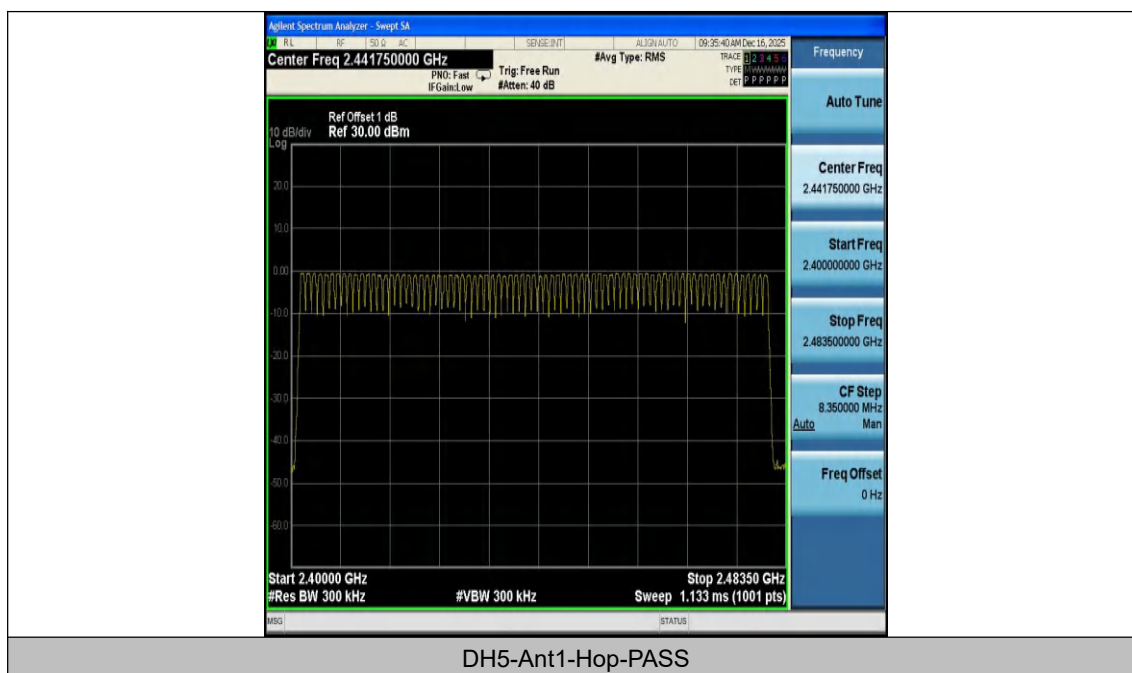
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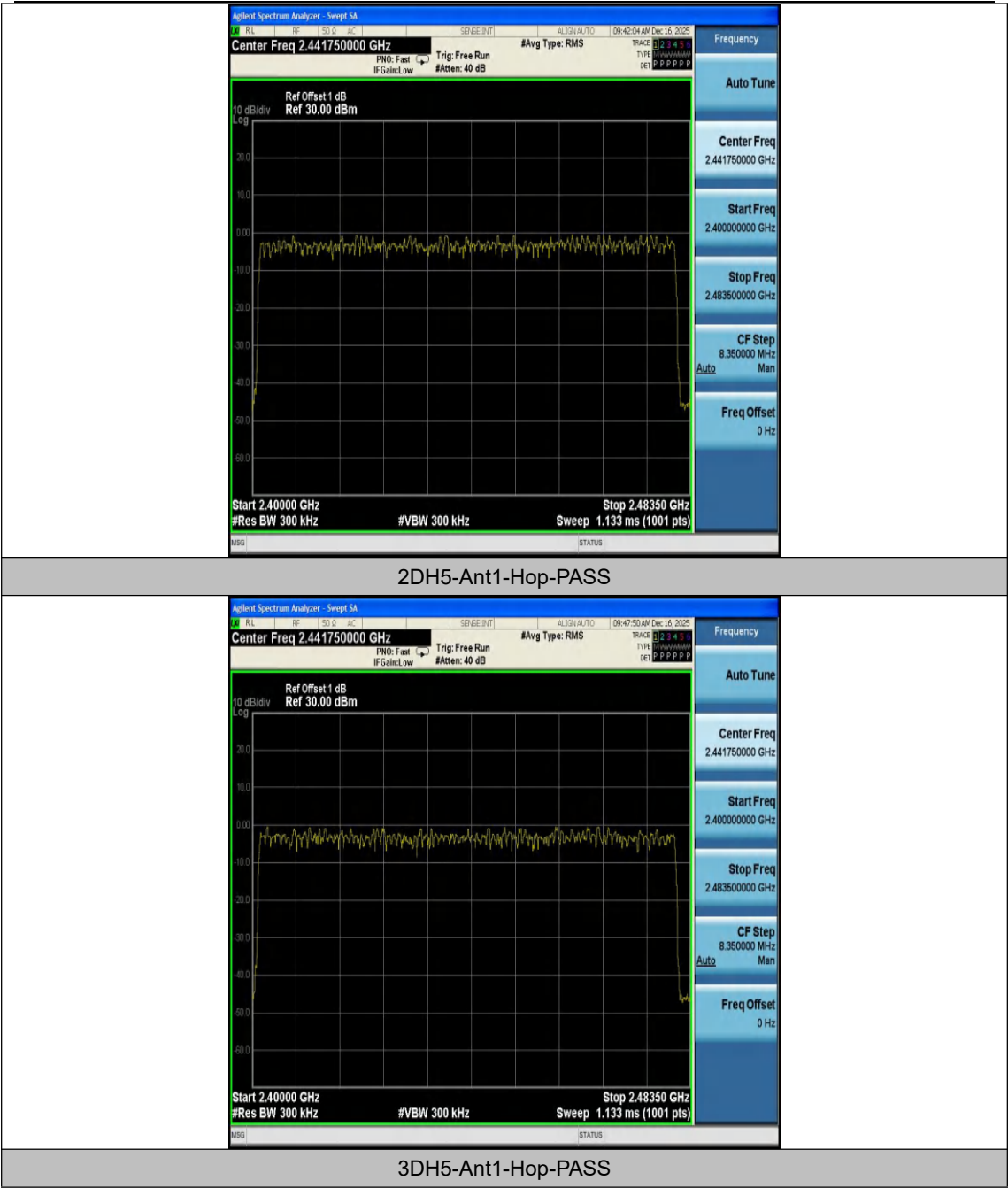
Appendix F: Number of Hopping Channel

Test Result

Test Mode	Antenna	Frequency [MHz]	Result [Num]	Limit [Num]	Verdict
DH5	Ant1	Hop	79	≥15	PASS
2DH5	Ant1	Hop	79	≥15	PASS
3DH5	Ant1	Hop	79	≥15	PASS

Test Graphs



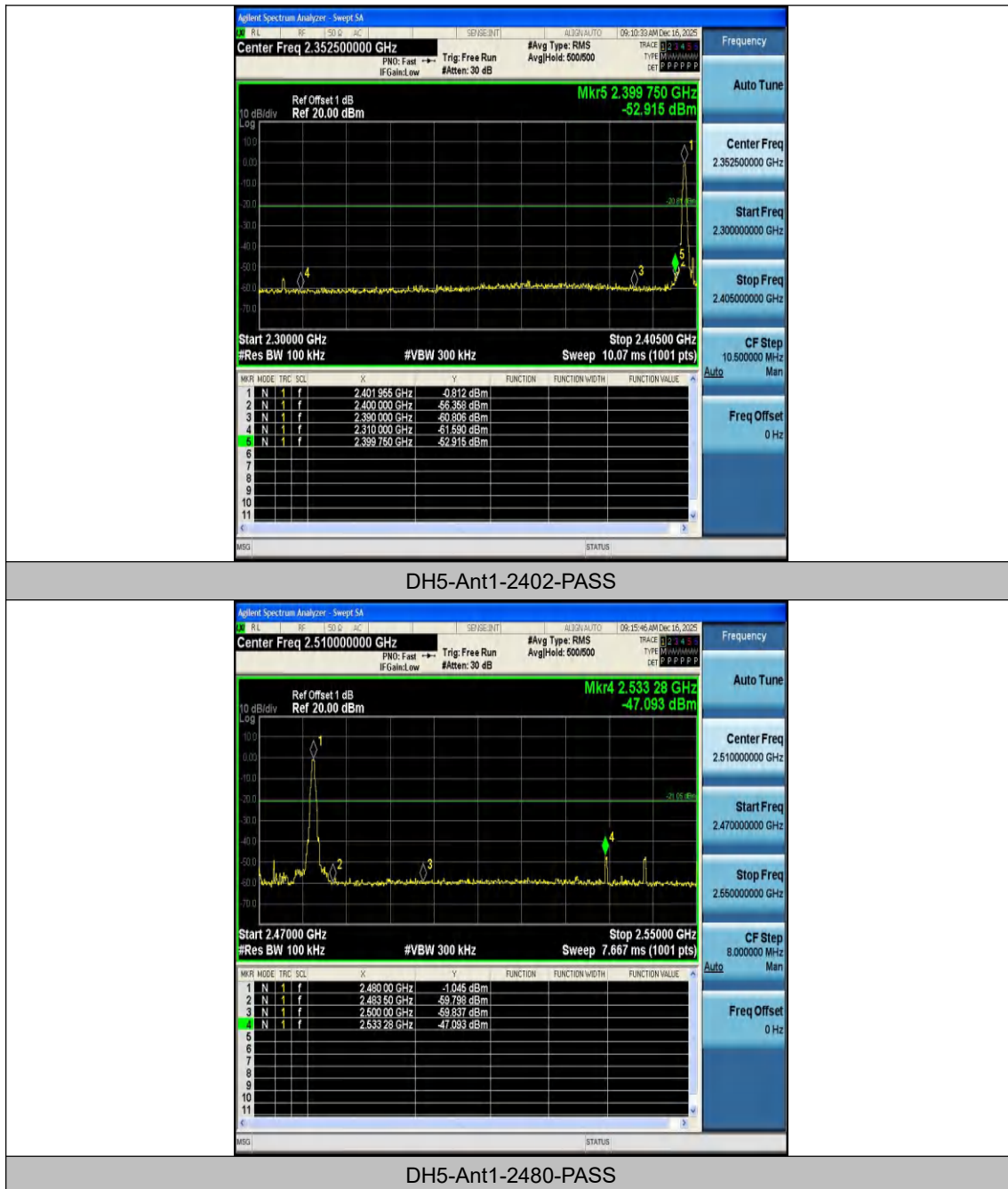


Appendix G: Conducted Band edge

Test Result

Test Mode	Antenna	Ch. Name	Frequency [MHz]	Ref. Level [dBm]	Result [dBm]	Limit [dBm]	Verdict
DH5	Ant1	Low	2402	-0.81	-52.92	≤ -20.81	PASS
DH5	Ant1	High	2480	-1.05	-47.09	≤ -21.05	PASS
DH5	Ant1	Low	Hop_2402	-1.14	-55	≤ -21.14	PASS
DH5	Ant1	High	Hop_2480	-1.00	-54.18	≤ -21	PASS
2DH5	Ant1	Low	2402	-0.79	-49.81	≤ -20.79	PASS
2DH5	Ant1	High	2480	-1.01	-57.12	≤ -21.01	PASS
2DH5	Ant1	Low	Hop_2402	-4.57	-54.84	≤ -24.57	PASS
2DH5	Ant1	High	Hop_2480	-0.91	-54.01	≤ -20.91	PASS
3DH5	Ant1	Low	2402	-0.98	-50.77	≤ -20.98	PASS
3DH5	Ant1	High	2480	-1.22	-28.29	≤ -21.22	PASS
3DH5	Ant1	Low	Hop_2402	-1.03	-55.12	≤ -21.03	PASS
3DH5	Ant1	High	Hop_2480	-1.01	-54.18	≤ -21.01	PASS

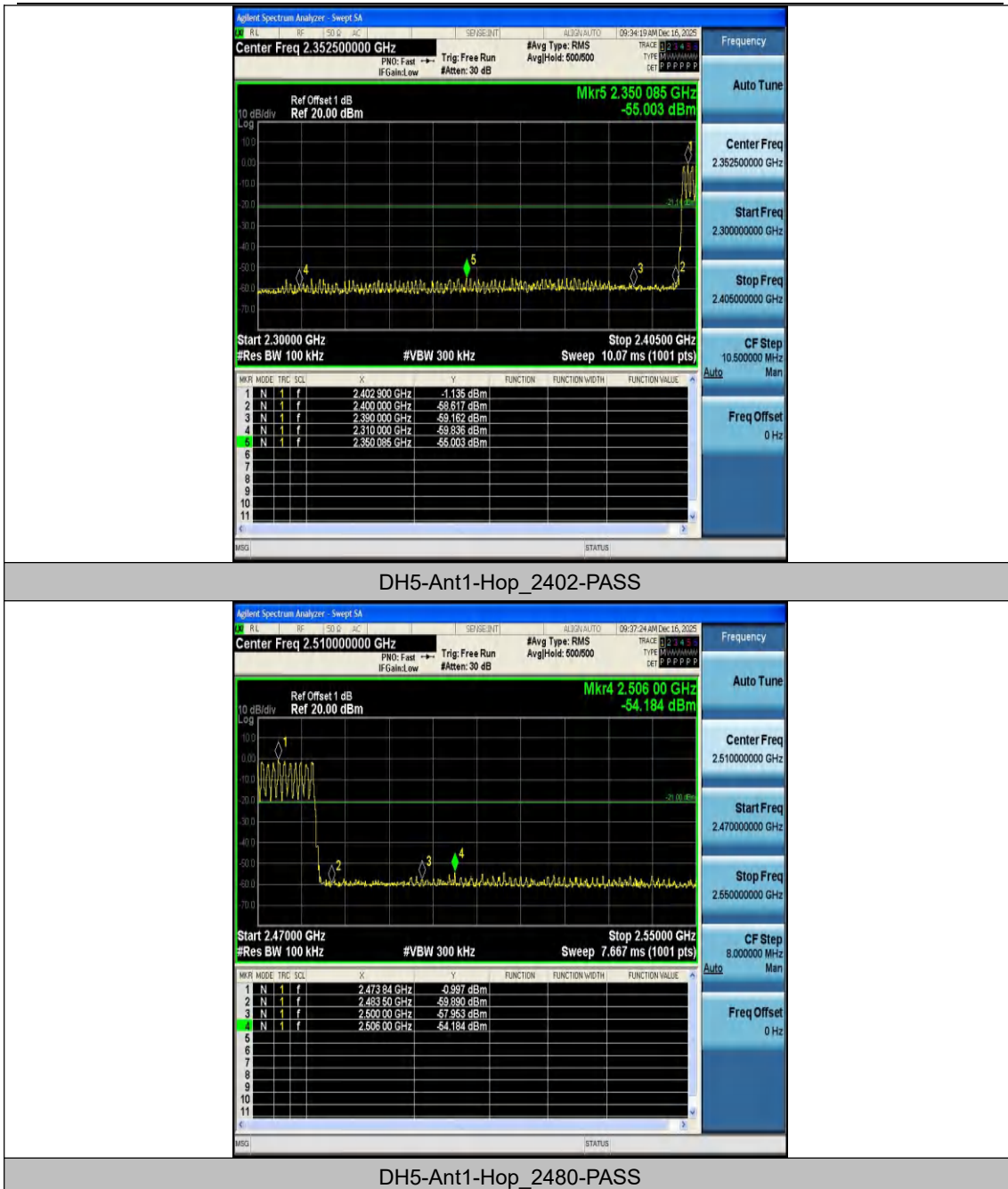
Test Graphs

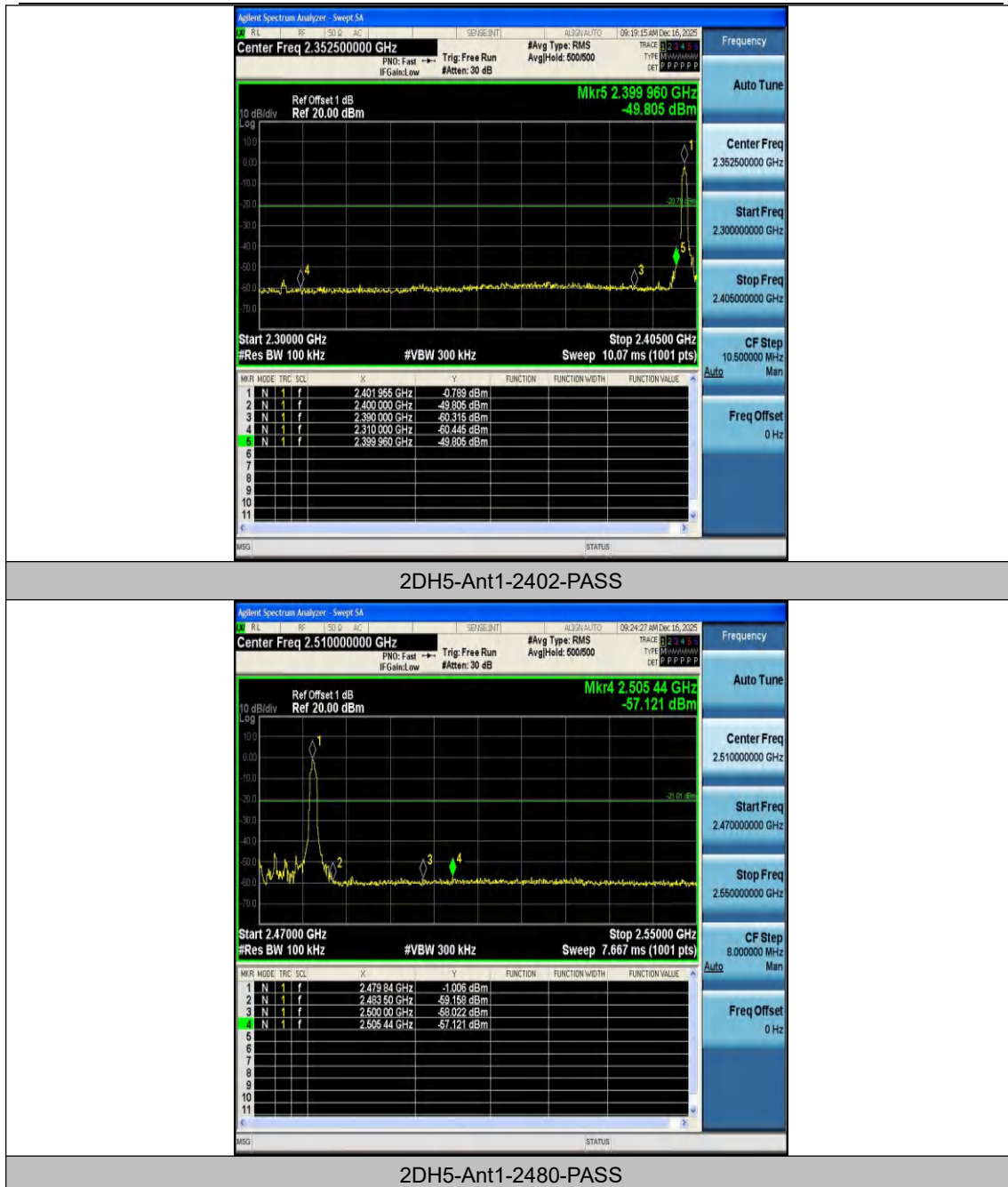


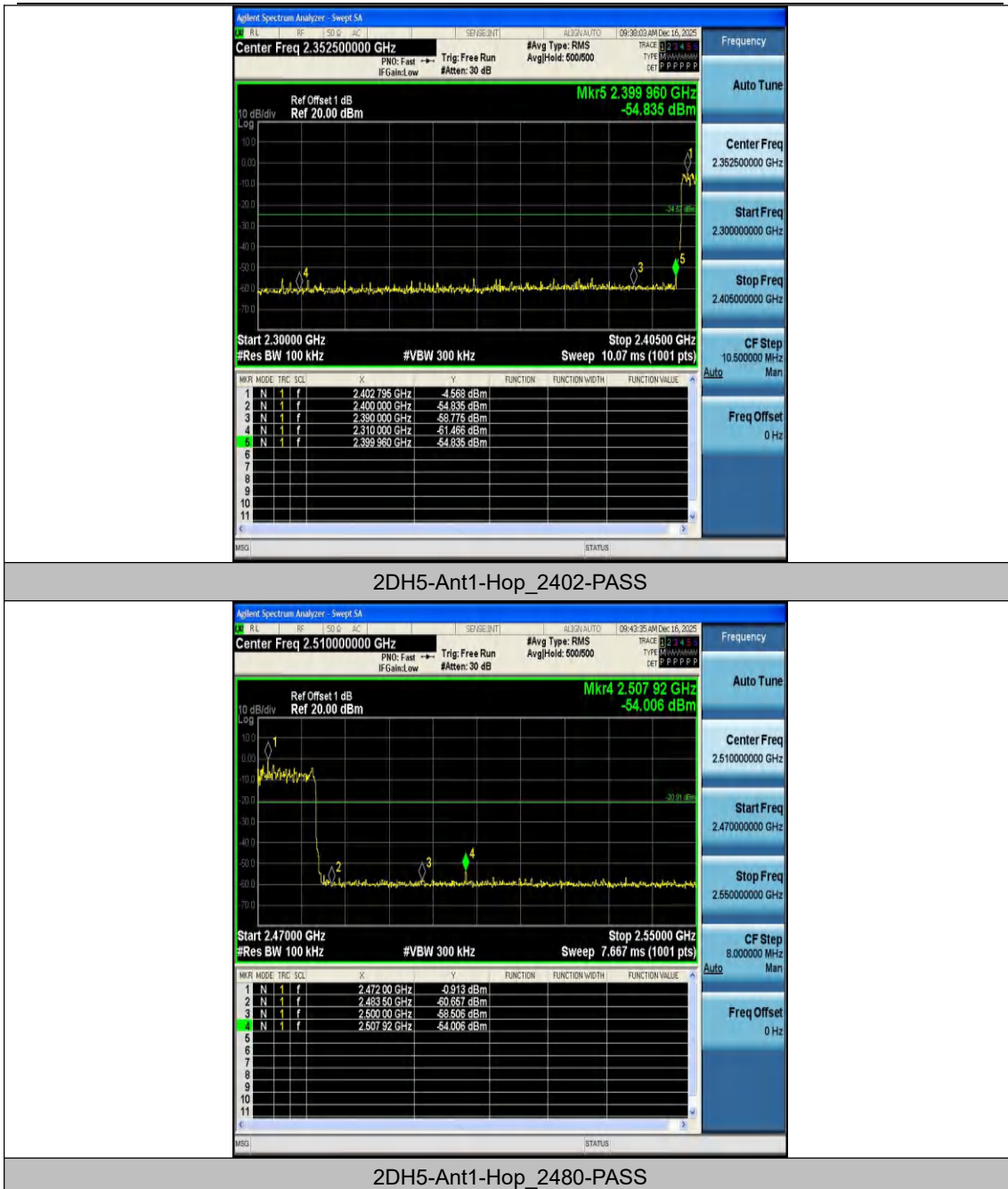
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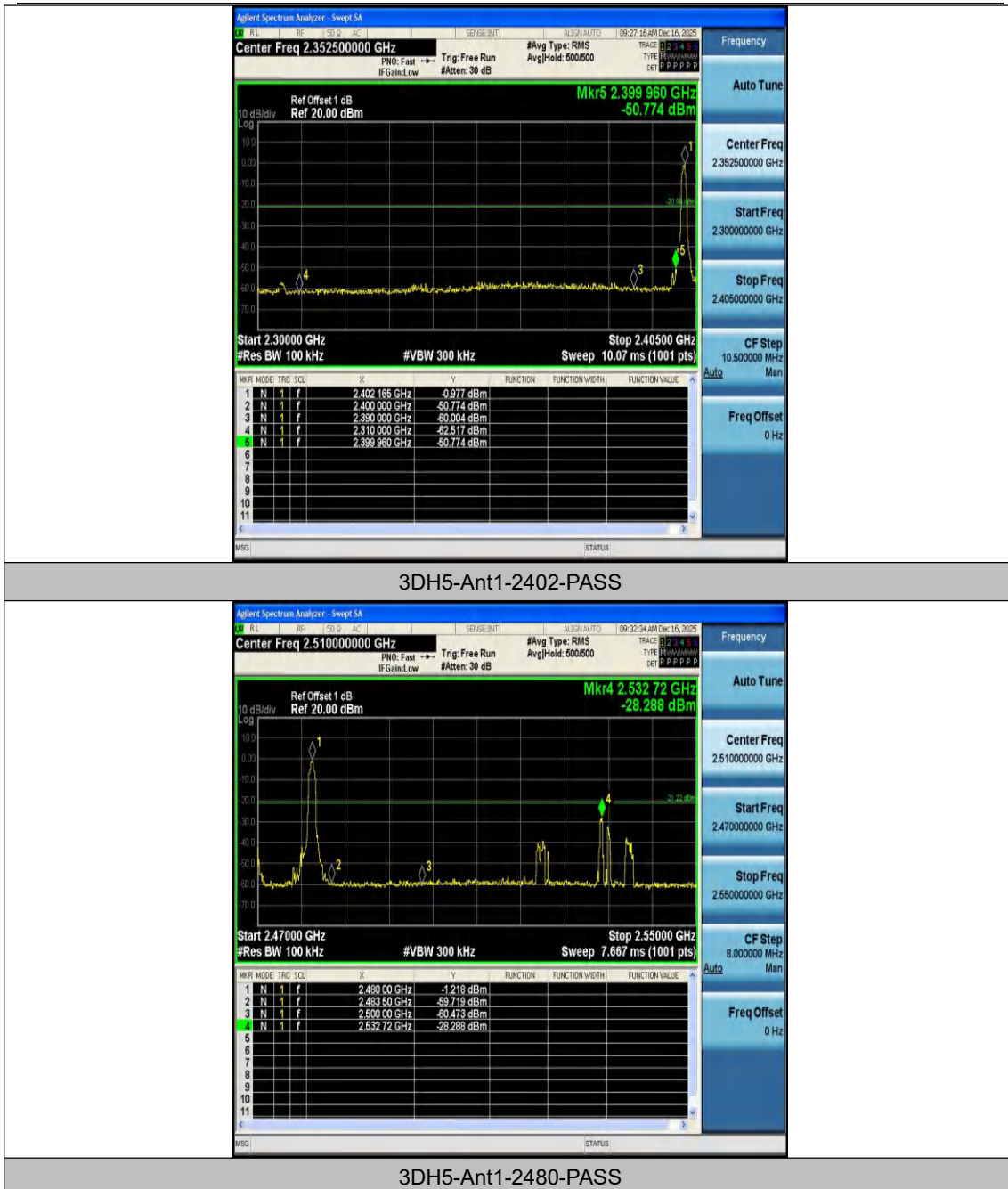


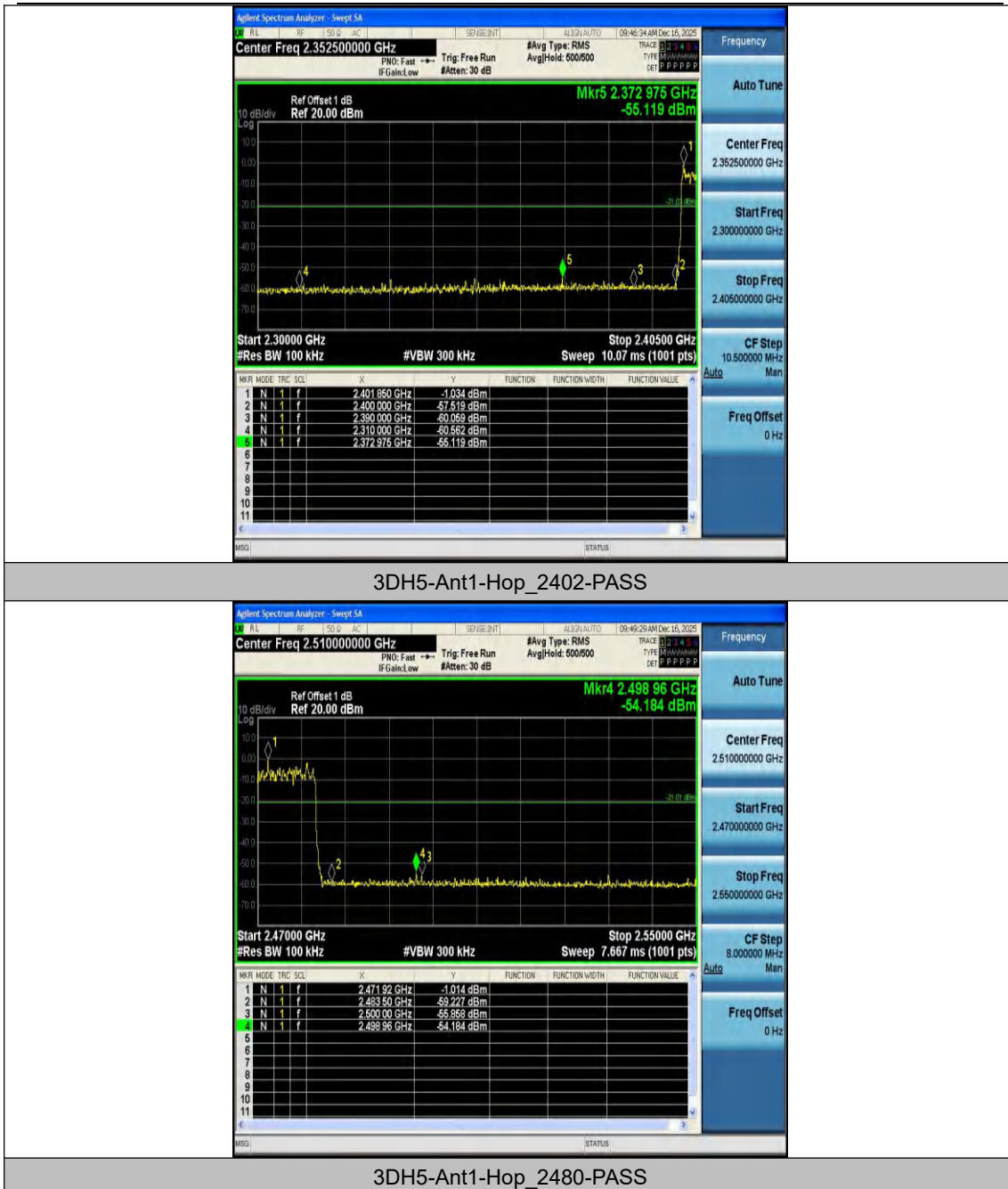


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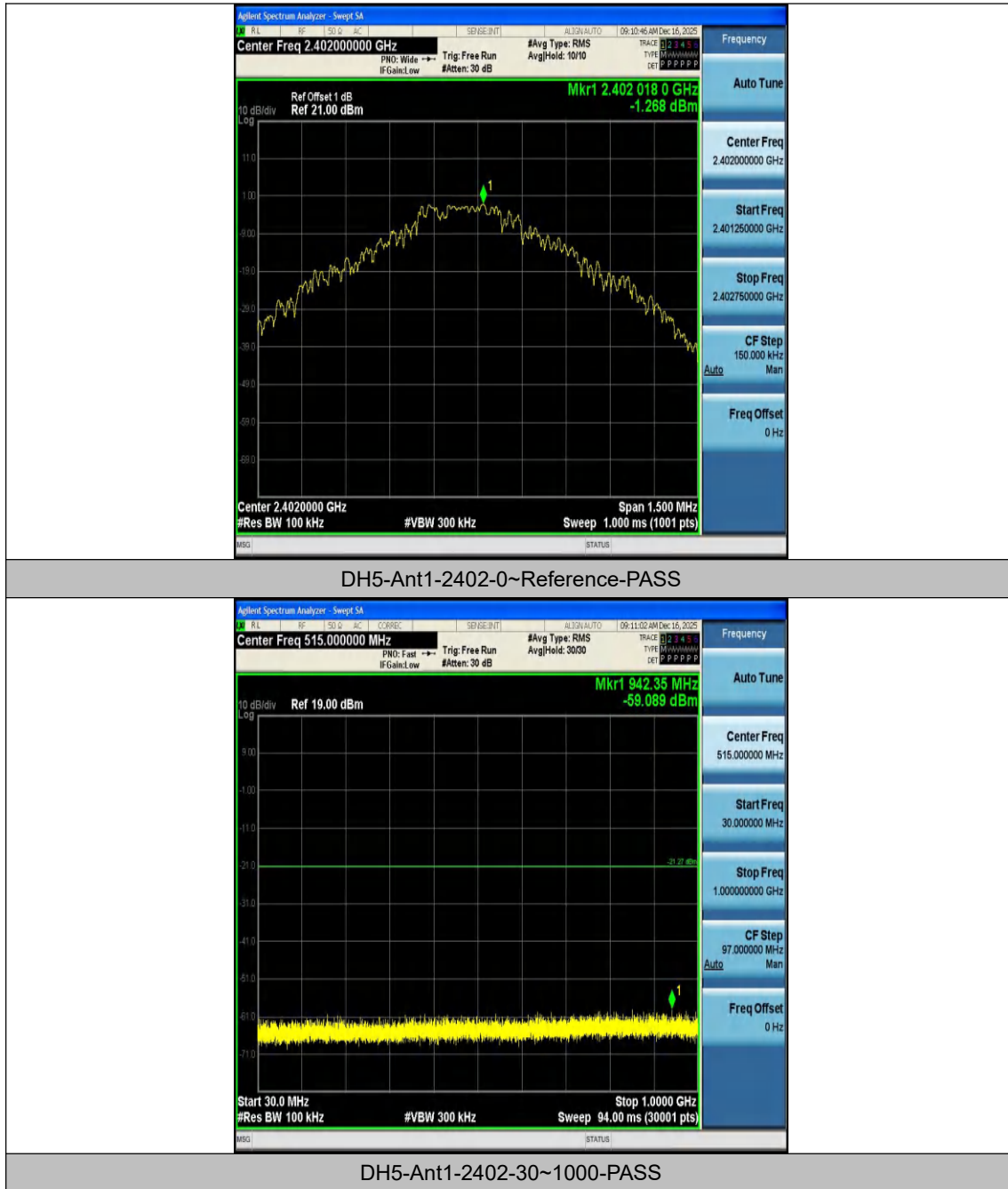
Appendix H: Conducted Spurious Emission

Test Result

Test Mode	Antenna	Frequency[MHz]	Freq. Range [MHz]	Ref. Level [dBm]	Result [dBm]	Limit [dBm]	Verdict
DH5	Ant1	2402	0~Reference	-1.27	-1.27	---	PASS
DH5	Ant1	2402	30~1000	-1.27	-59.09	≤-21.27	PASS
DH5	Ant1	2402	1000~26500	-1.27	-46.22	≤-21.27	PASS
DH5	Ant1	2441	0~Reference	-1.63	-1.63	---	PASS
DH5	Ant1	2441	30~1000	-1.63	-58.53	≤-21.63	PASS
DH5	Ant1	2441	1000~26500	-1.63	-45.65	≤-21.63	PASS
DH5	Ant1	2480	0~Reference	-1.49	-1.49	---	PASS
DH5	Ant1	2480	30~1000	-1.49	-58.53	≤-21.49	PASS
DH5	Ant1	2480	1000~26500	-1.49	-46.16	≤-21.49	PASS
2DH5	Ant1	2402	0~Reference	-3.86	-3.86	---	PASS
2DH5	Ant1	2402	30~1000	-3.86	-59.35	≤-23.86	PASS
2DH5	Ant1	2402	1000~26500	-3.86	-46.39	≤-23.86	PASS
2DH5	Ant1	2441	0~Reference	-4.75	-4.75	---	PASS
2DH5	Ant1	2441	30~1000	-4.75	-58.95	≤-24.75	PASS
2DH5	Ant1	2441	1000~26500	-4.75	-45.78	≤-24.75	PASS
2DH5	Ant1	2480	0~Reference	-1.08	-1.08	---	PASS
2DH5	Ant1	2480	30~1000	-1.08	-58.81	≤-21.08	PASS
2DH5	Ant1	2480	1000~26500	-1.08	-45.49	≤-21.08	PASS
3DH5	Ant1	2402	0~Reference	-1.36	-1.36	---	PASS
3DH5	Ant1	2402	30~1000	-1.36	-58.25	≤-21.36	PASS
3DH5	Ant1	2402	1000~26500	-1.36	-45.71	≤-21.36	PASS
3DH5	Ant1	2441	0~Reference	-3.45	-3.45	---	PASS
3DH5	Ant1	2441	30~1000	-3.45	-59.09	≤-23.45	PASS
3DH5	Ant1	2441	1000~26500	-3.45	-45.79	≤-23.45	PASS
3DH5	Ant1	2480	0~Reference	-1.08	-1.08	---	PASS
3DH5	Ant1	2480	30~1000	-1.08	-59.37	≤-21.08	PASS
3DH5	Ant1	2480	1000~26500	-1.08	-45.39	≤-21.08	PASS

Remark: Regarding the spurious emissions from 30MHz to 26.5GHz, the cable loss have been set in the 'Input Correction' of the Spectrum Analyzer during the test.

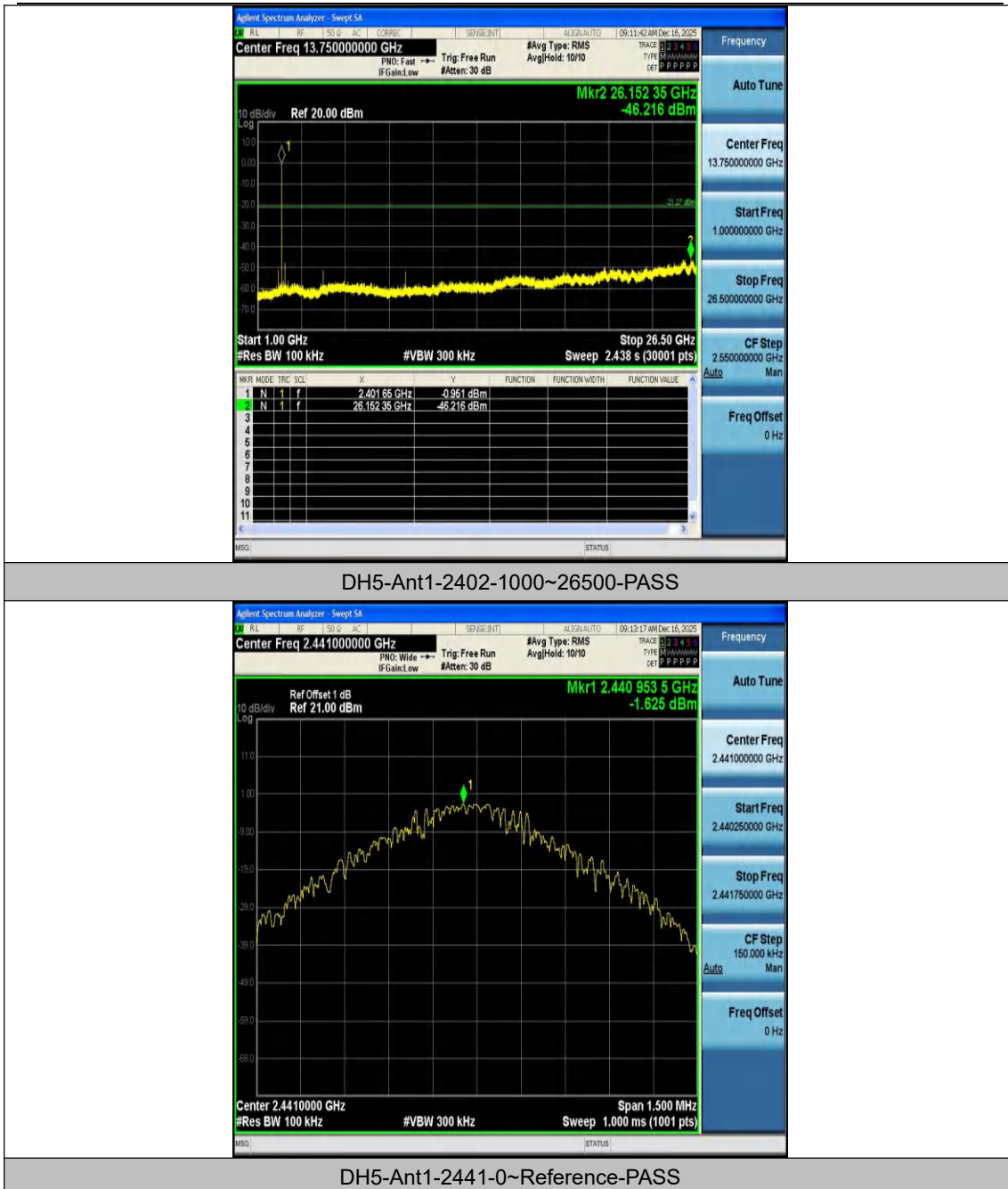
Test Graphs



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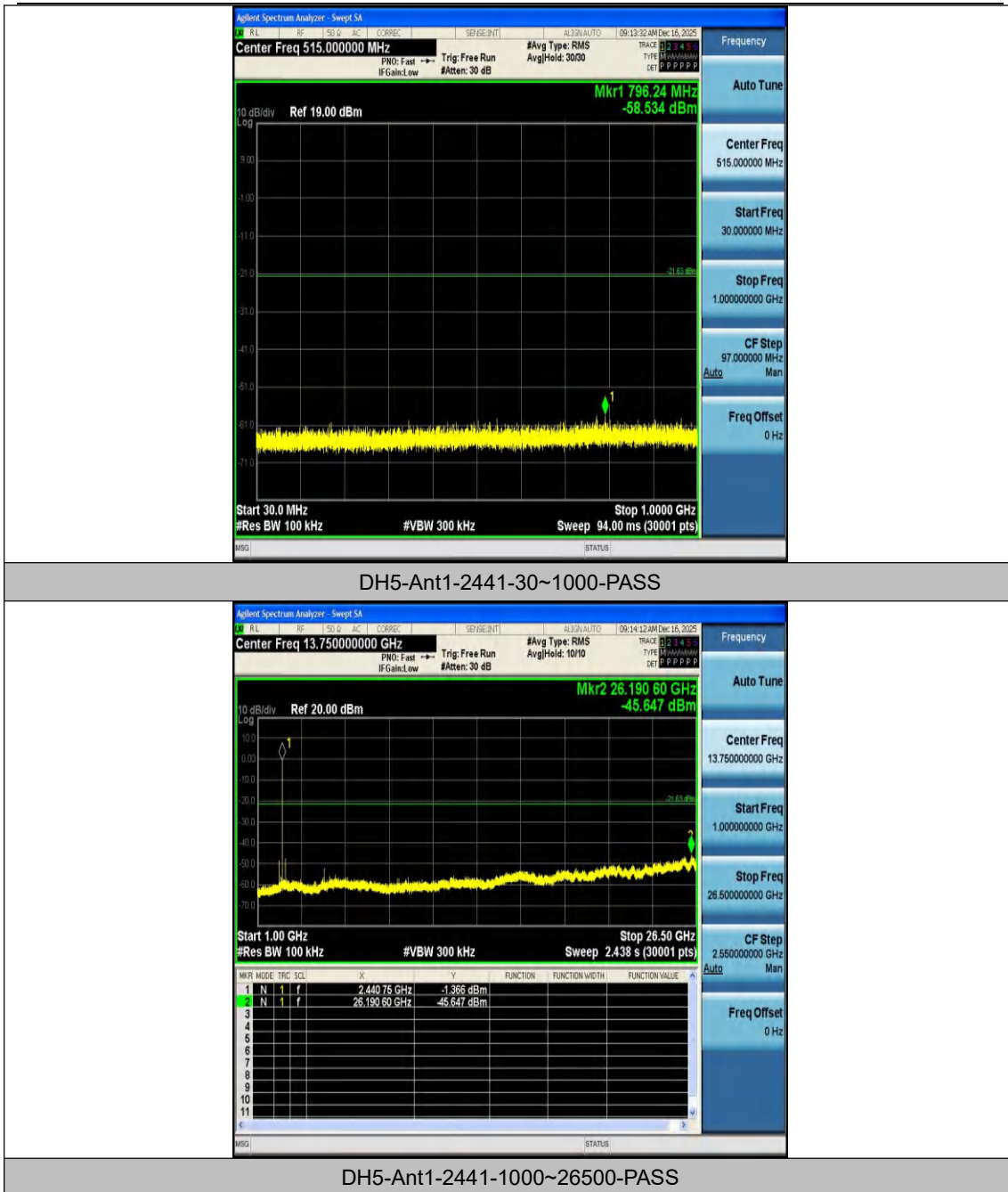
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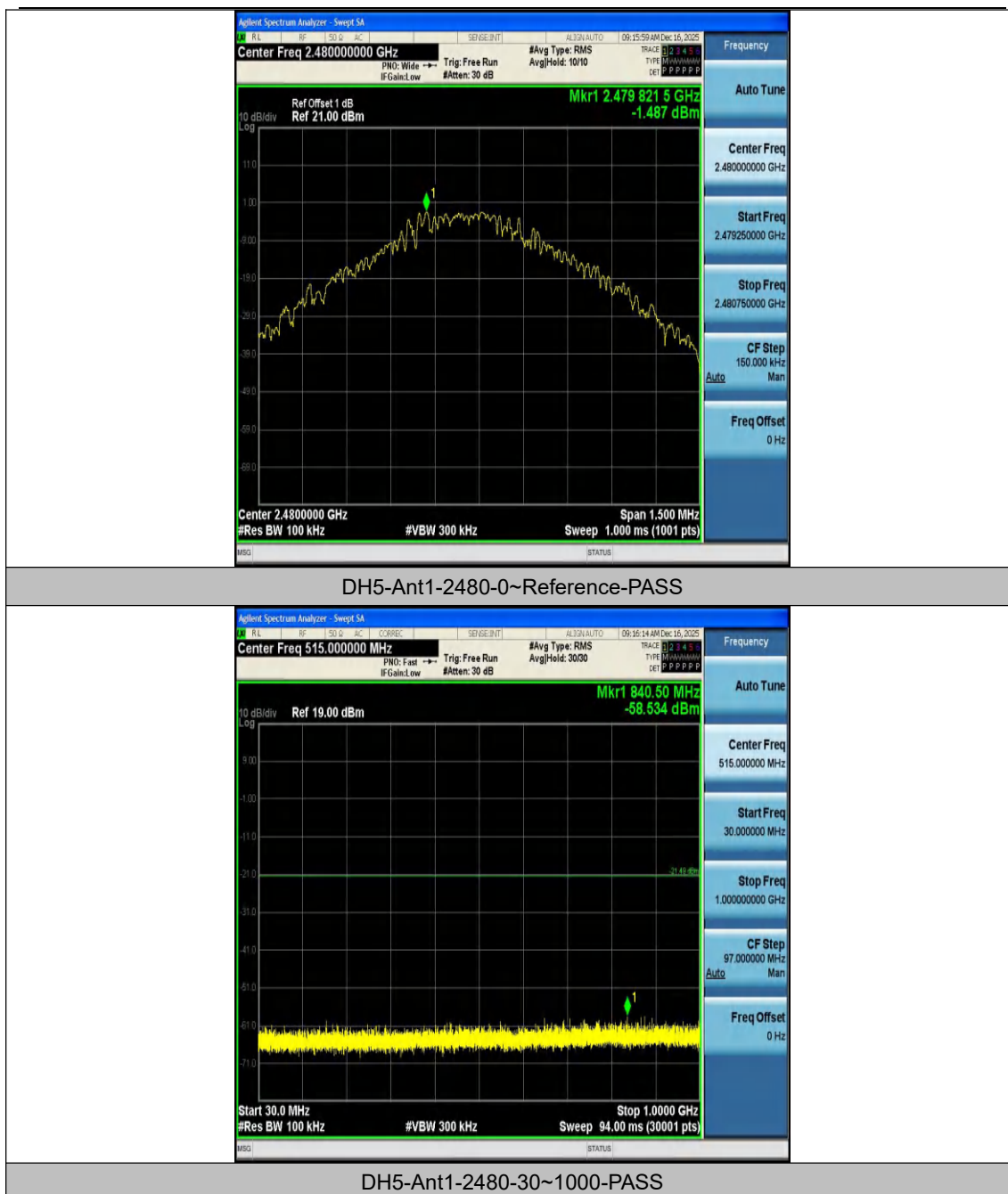


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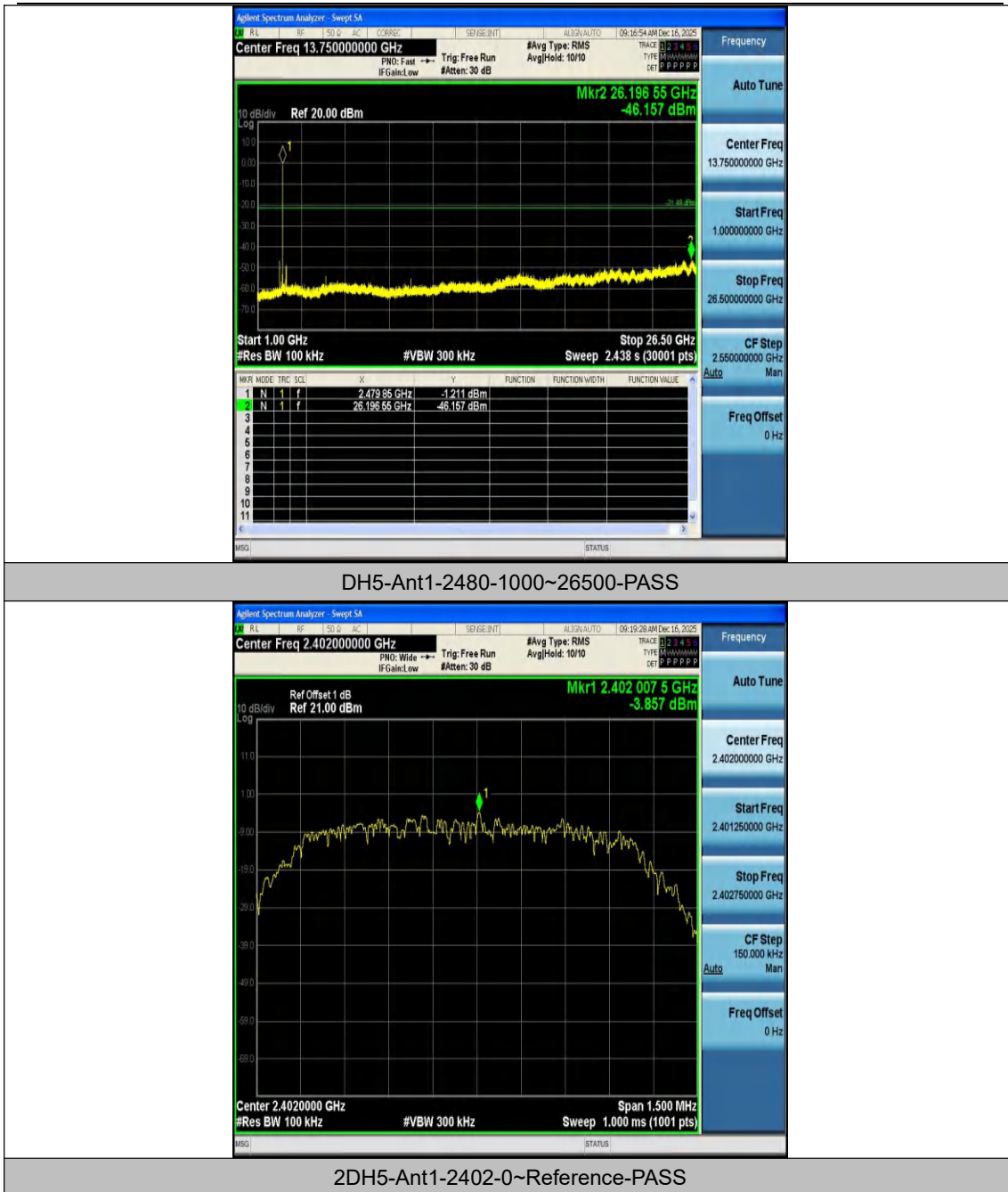




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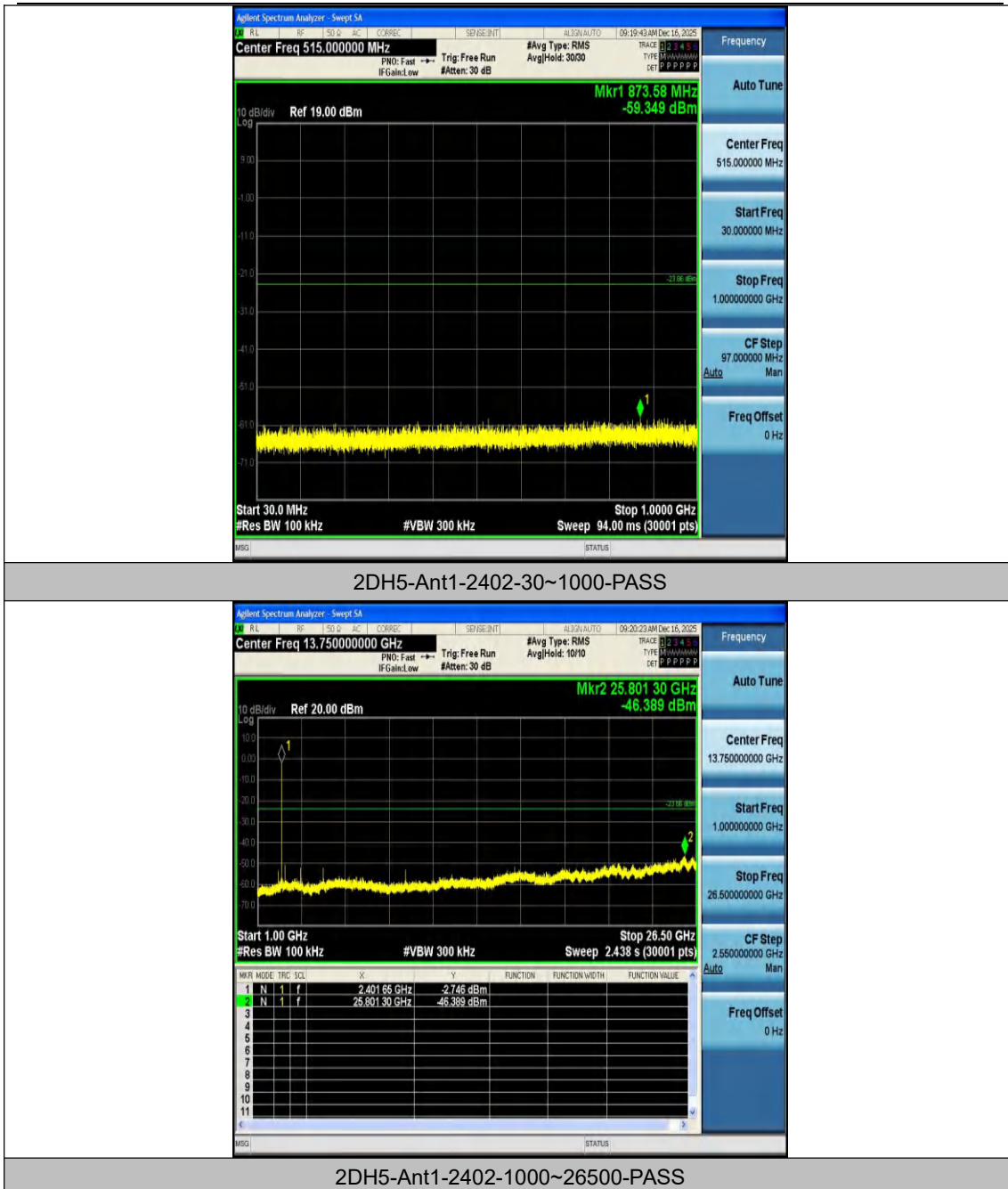
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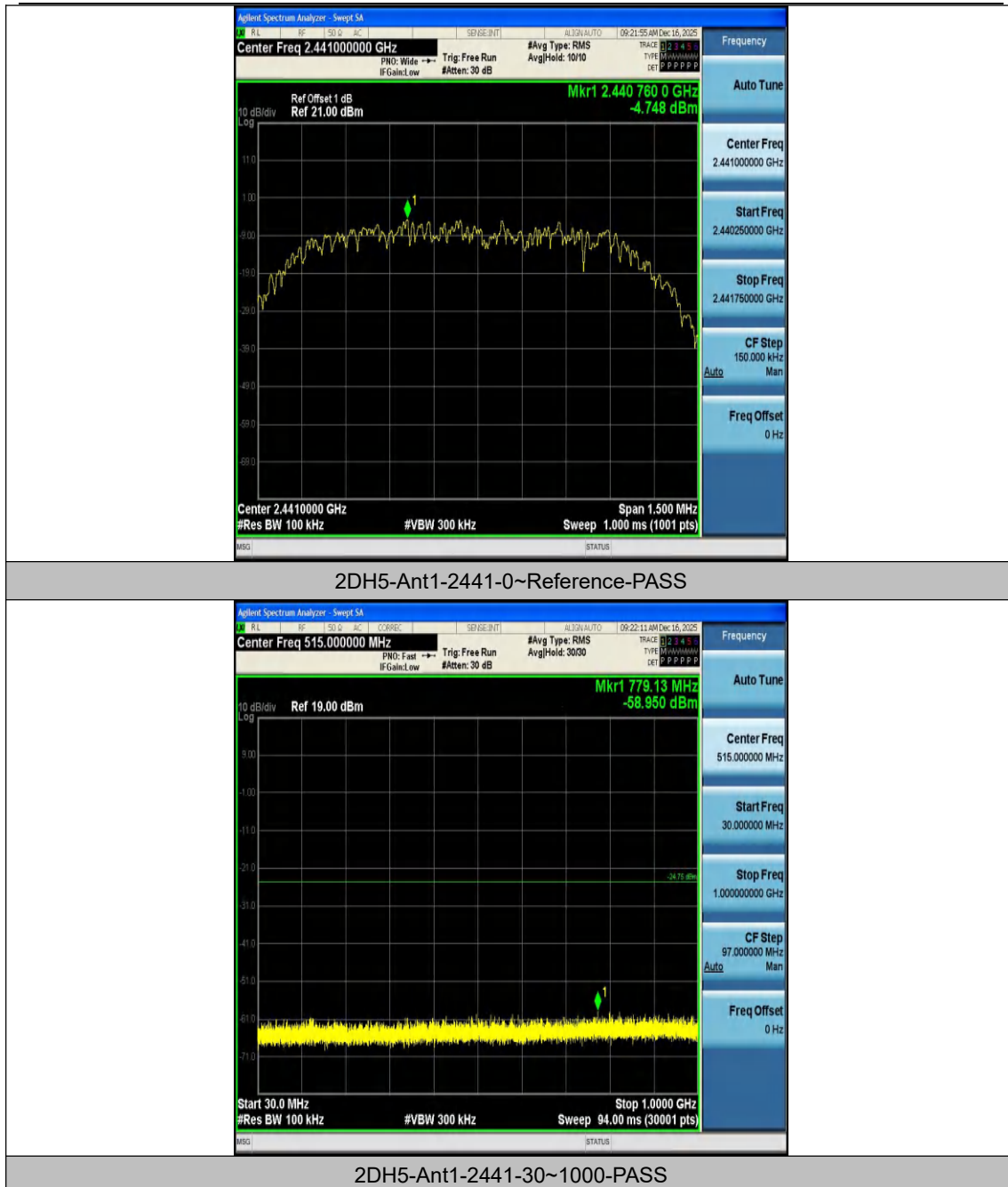


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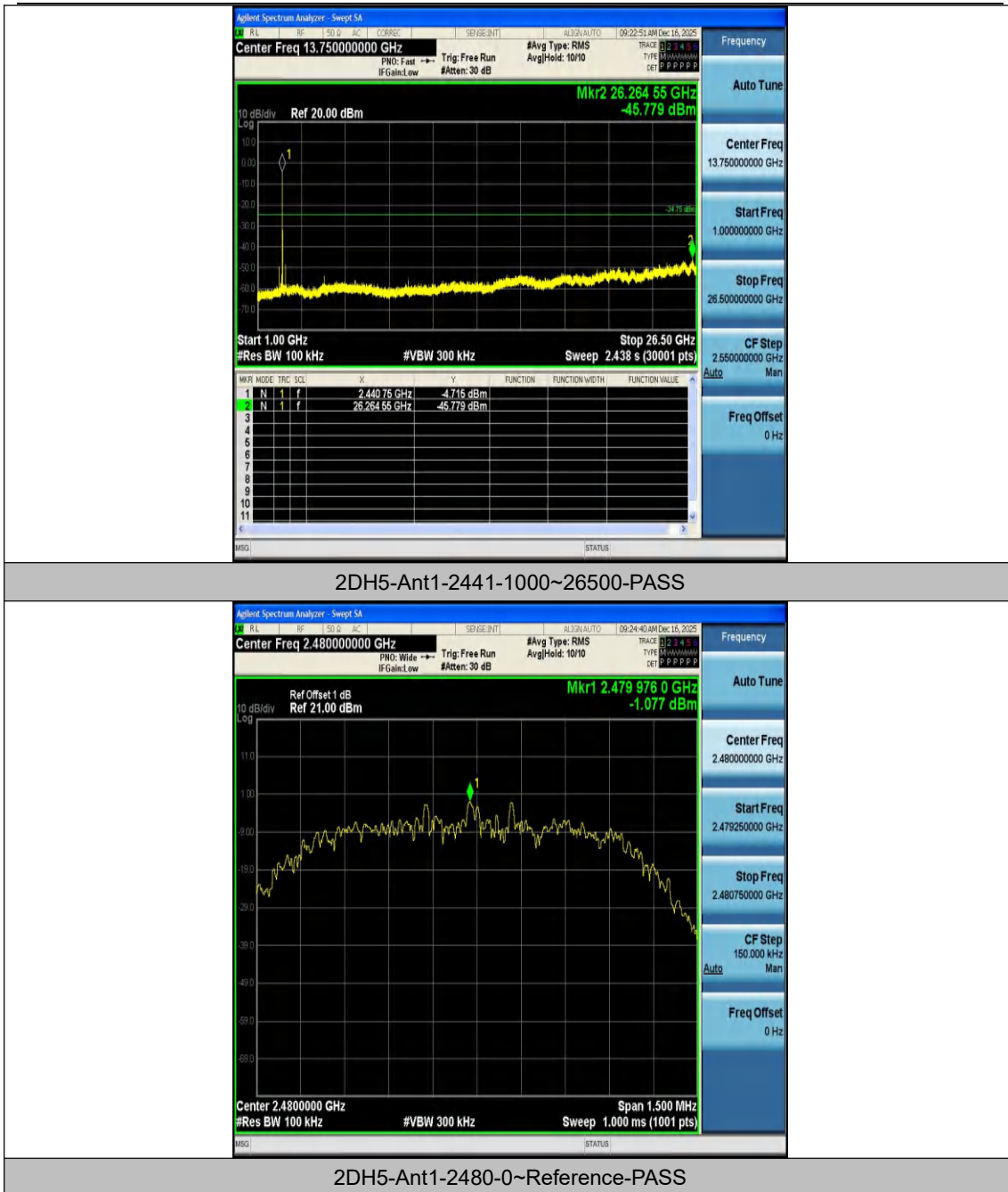




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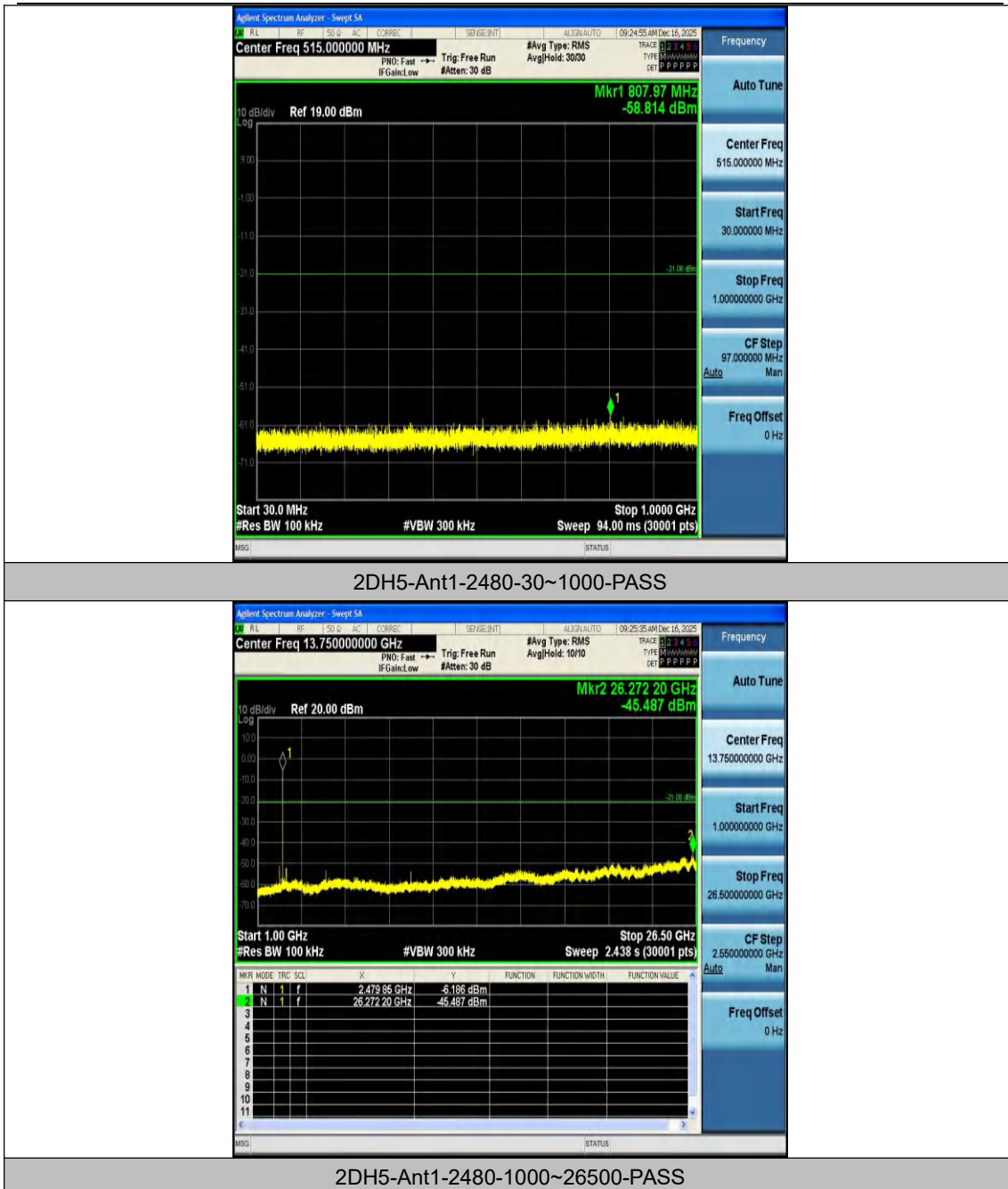
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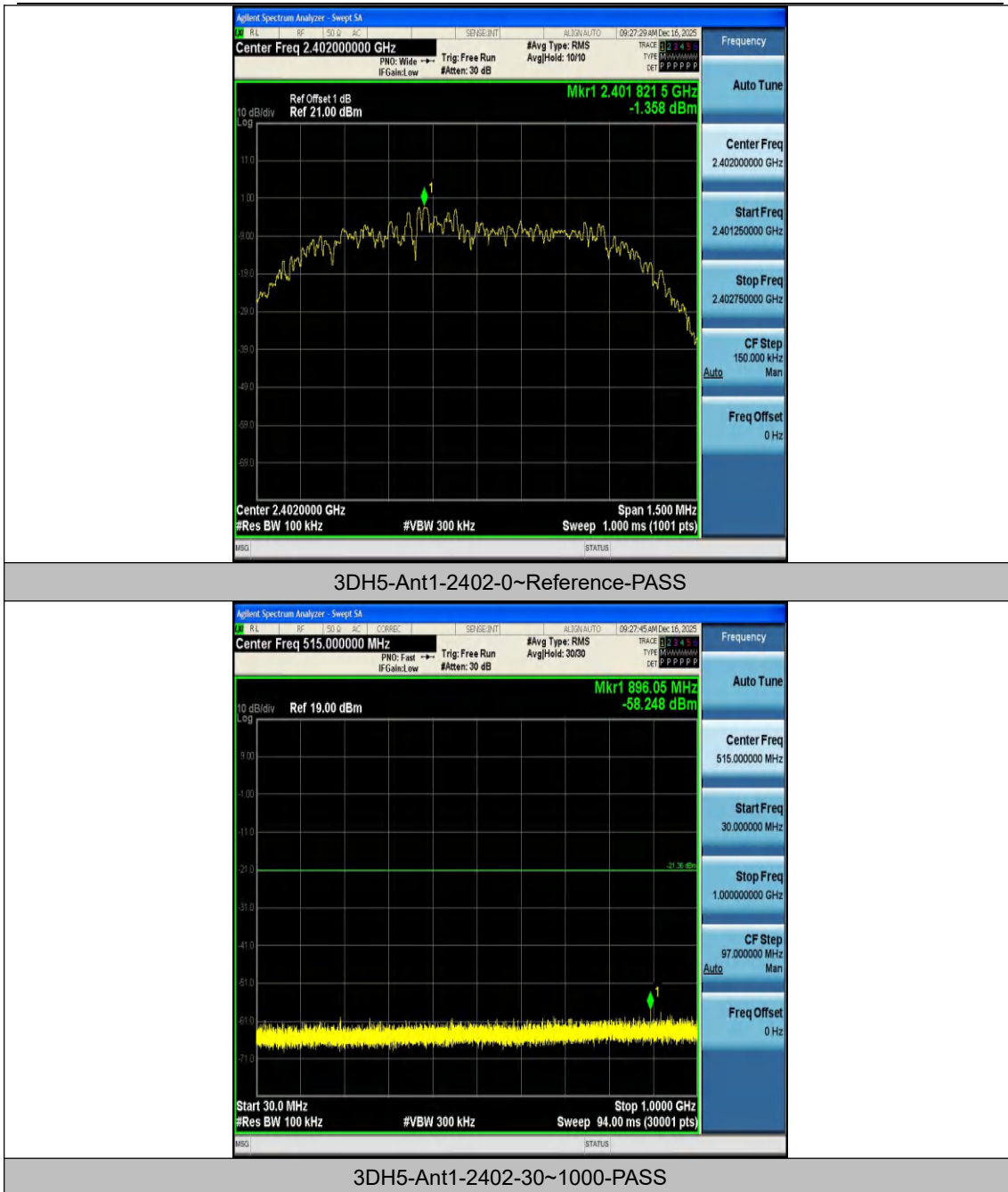


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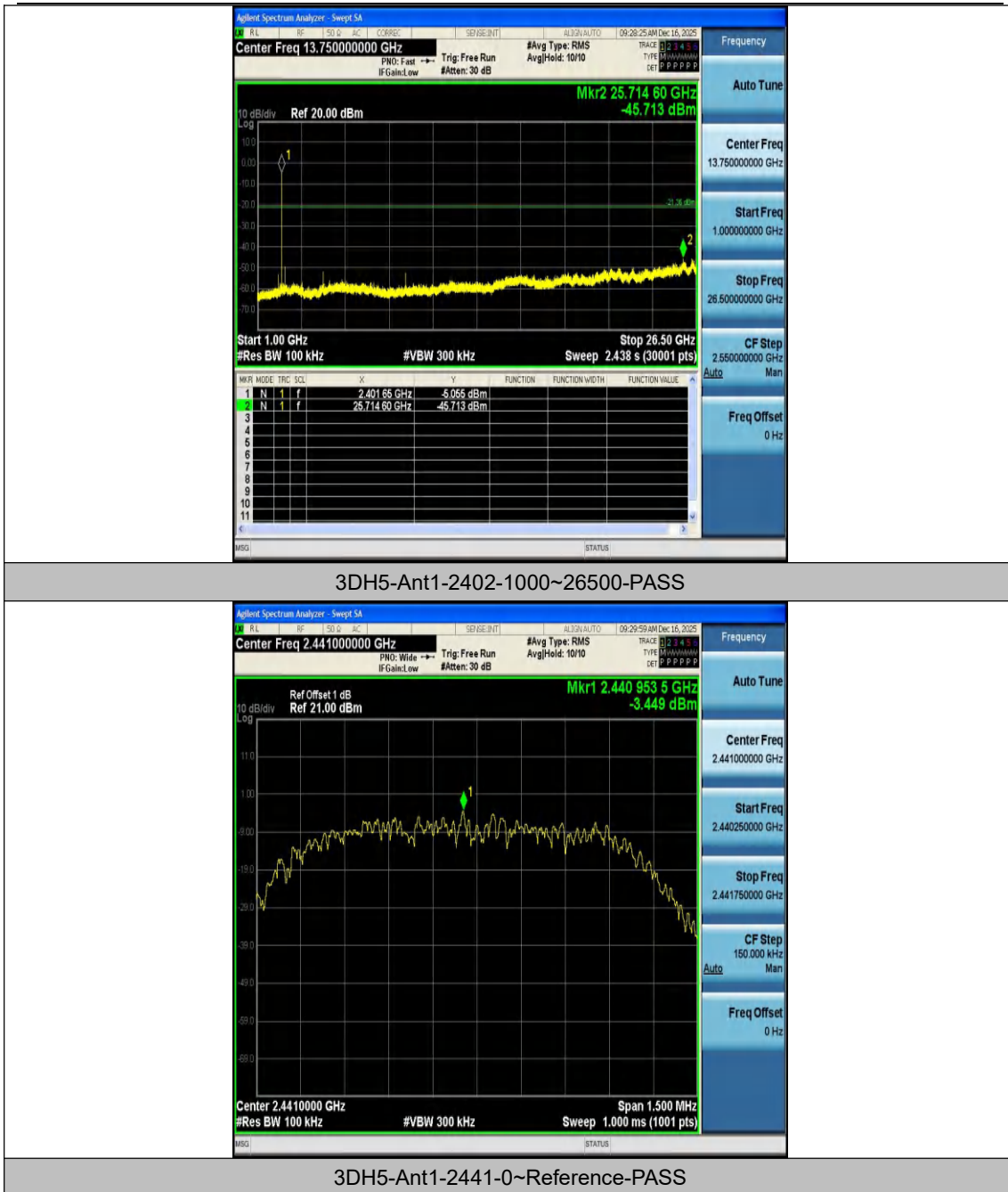




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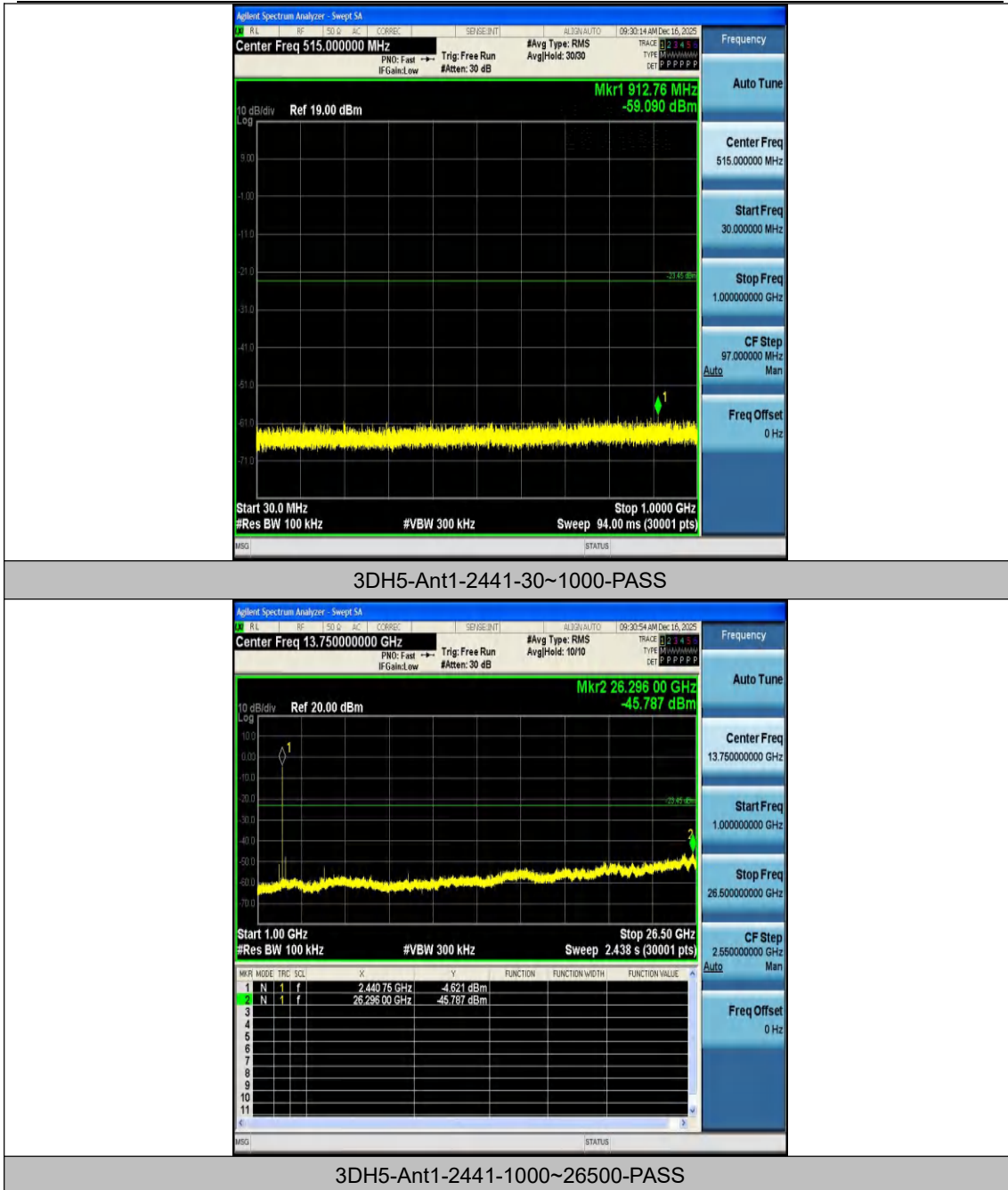
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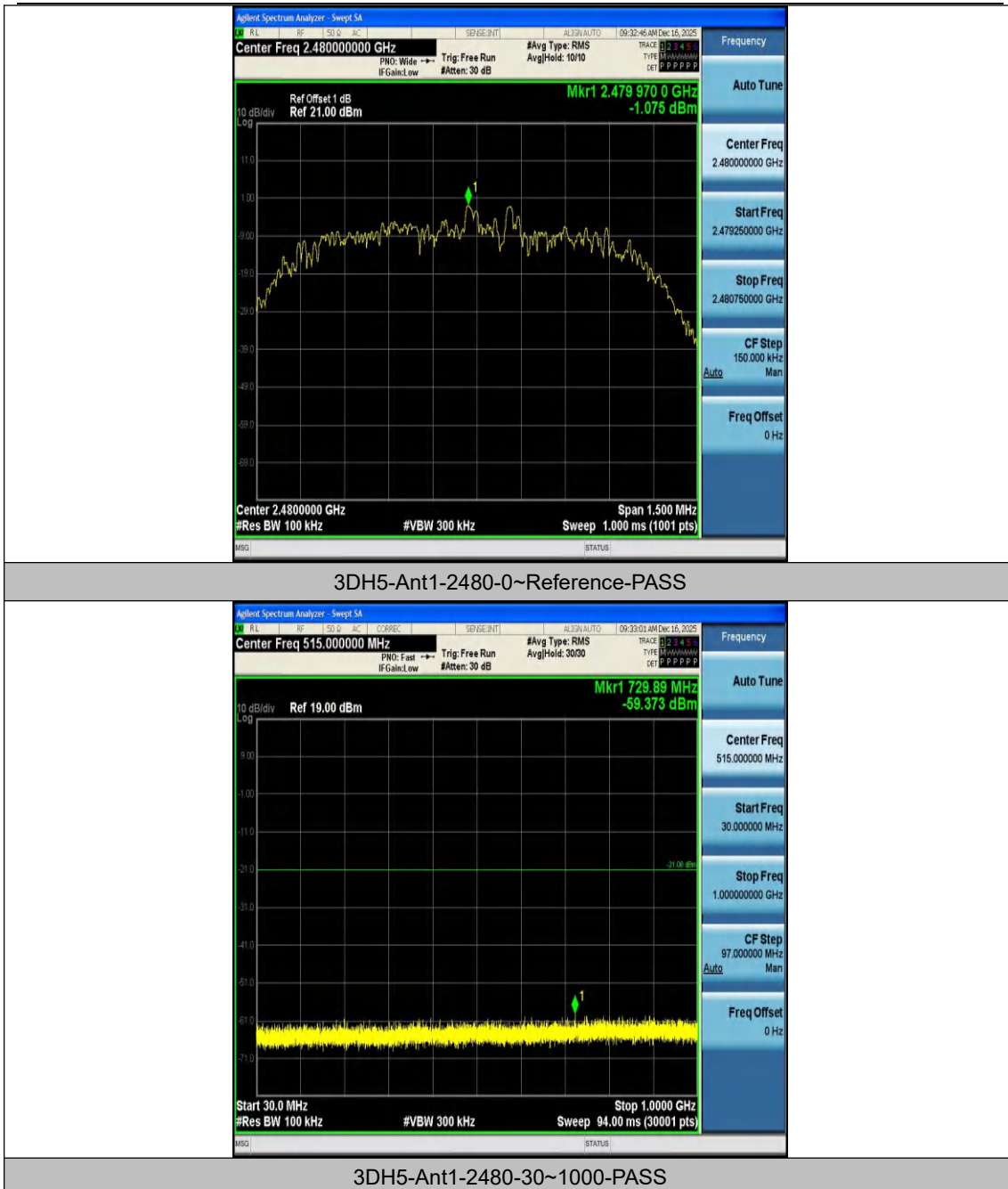


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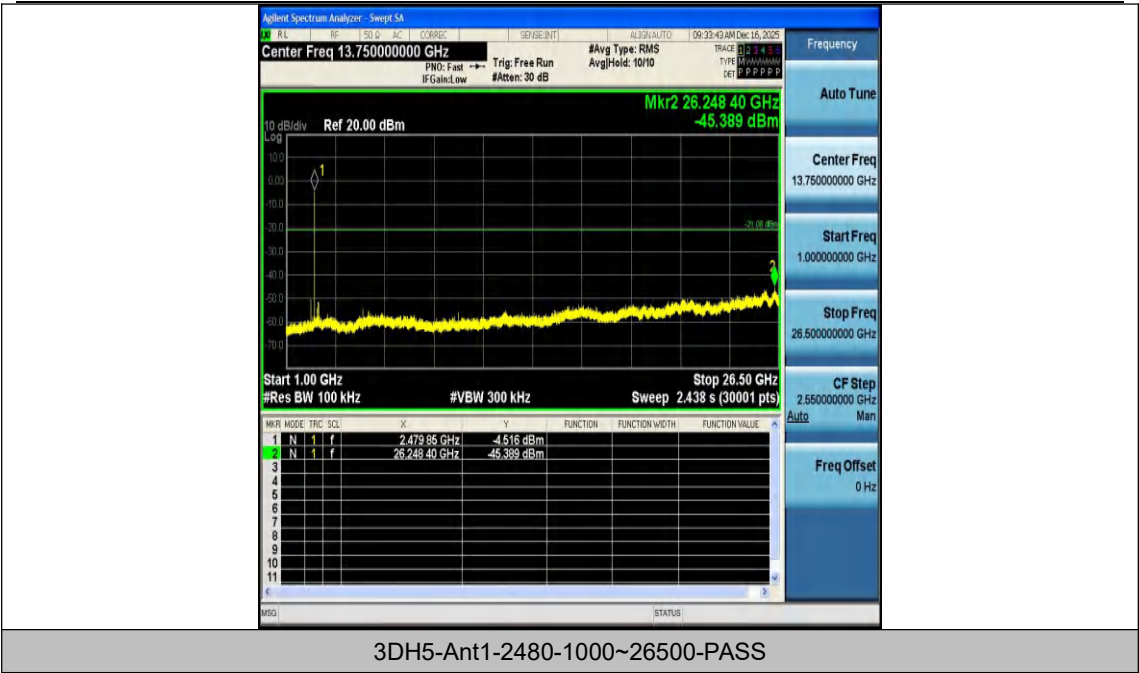




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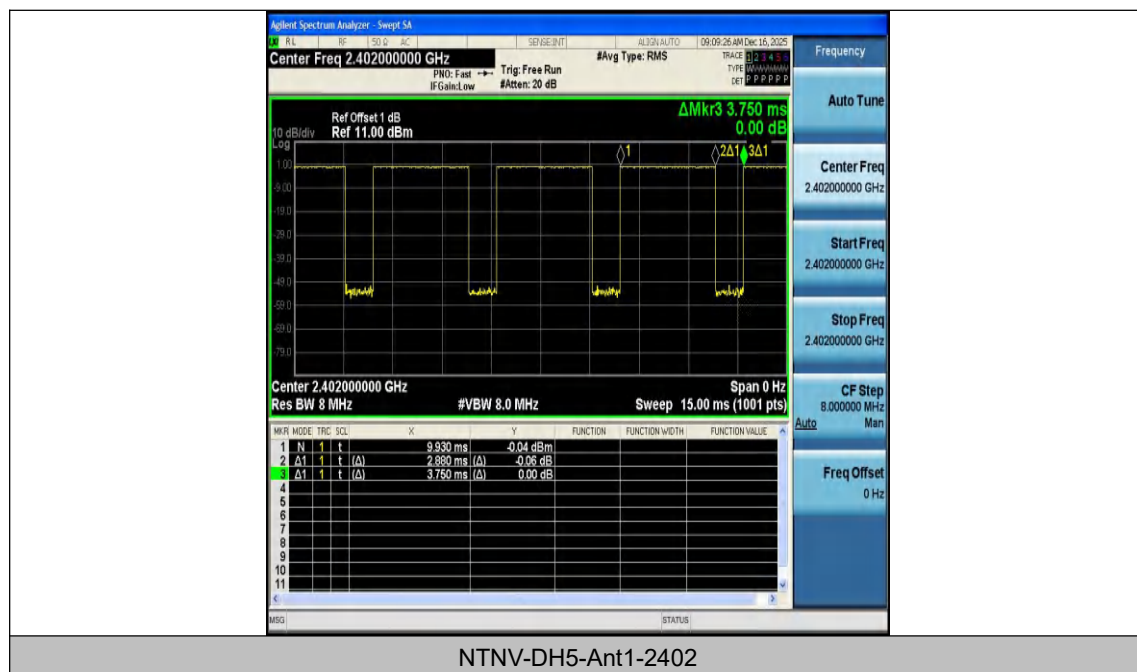
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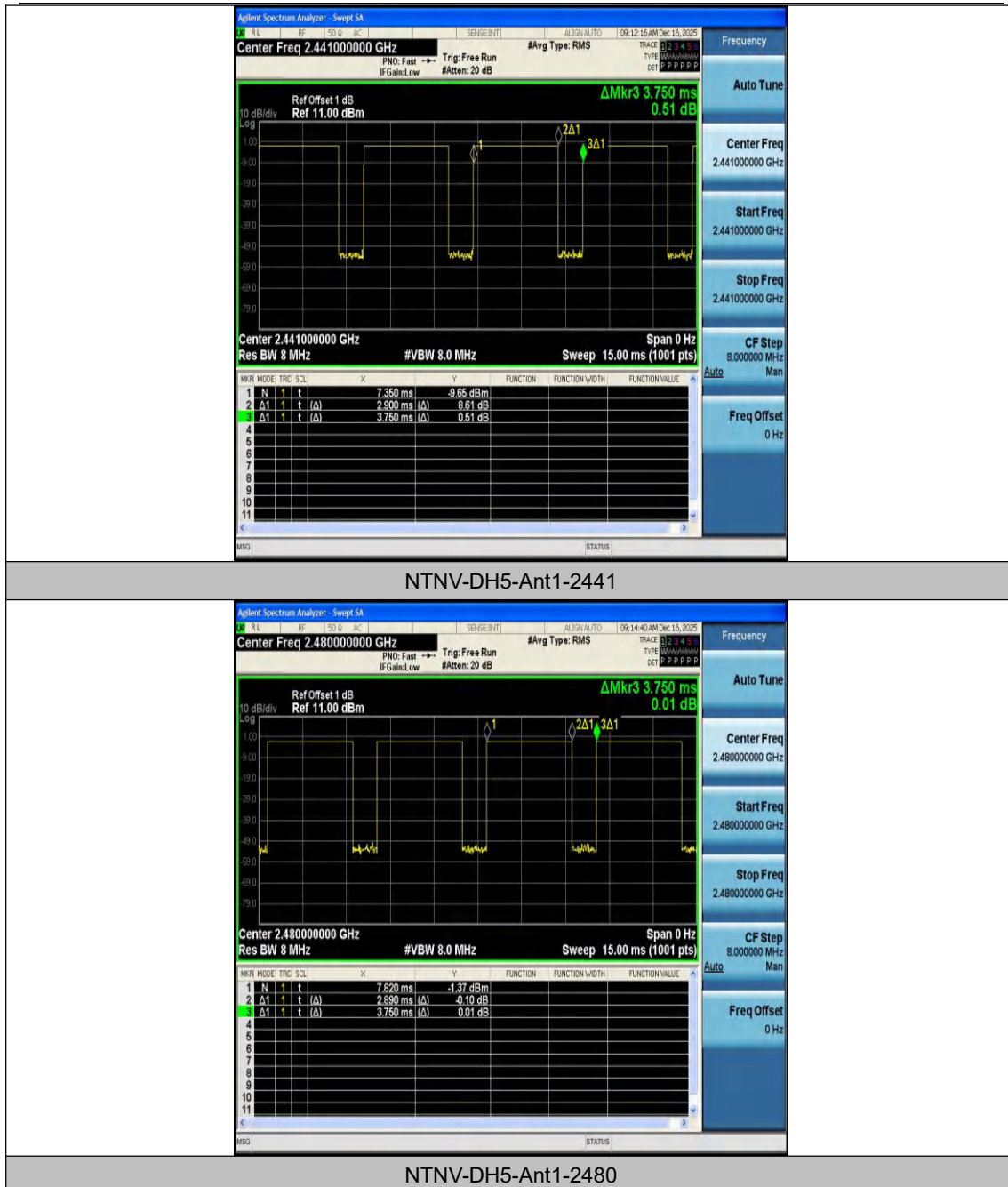
Appendix I: Duty Cycle

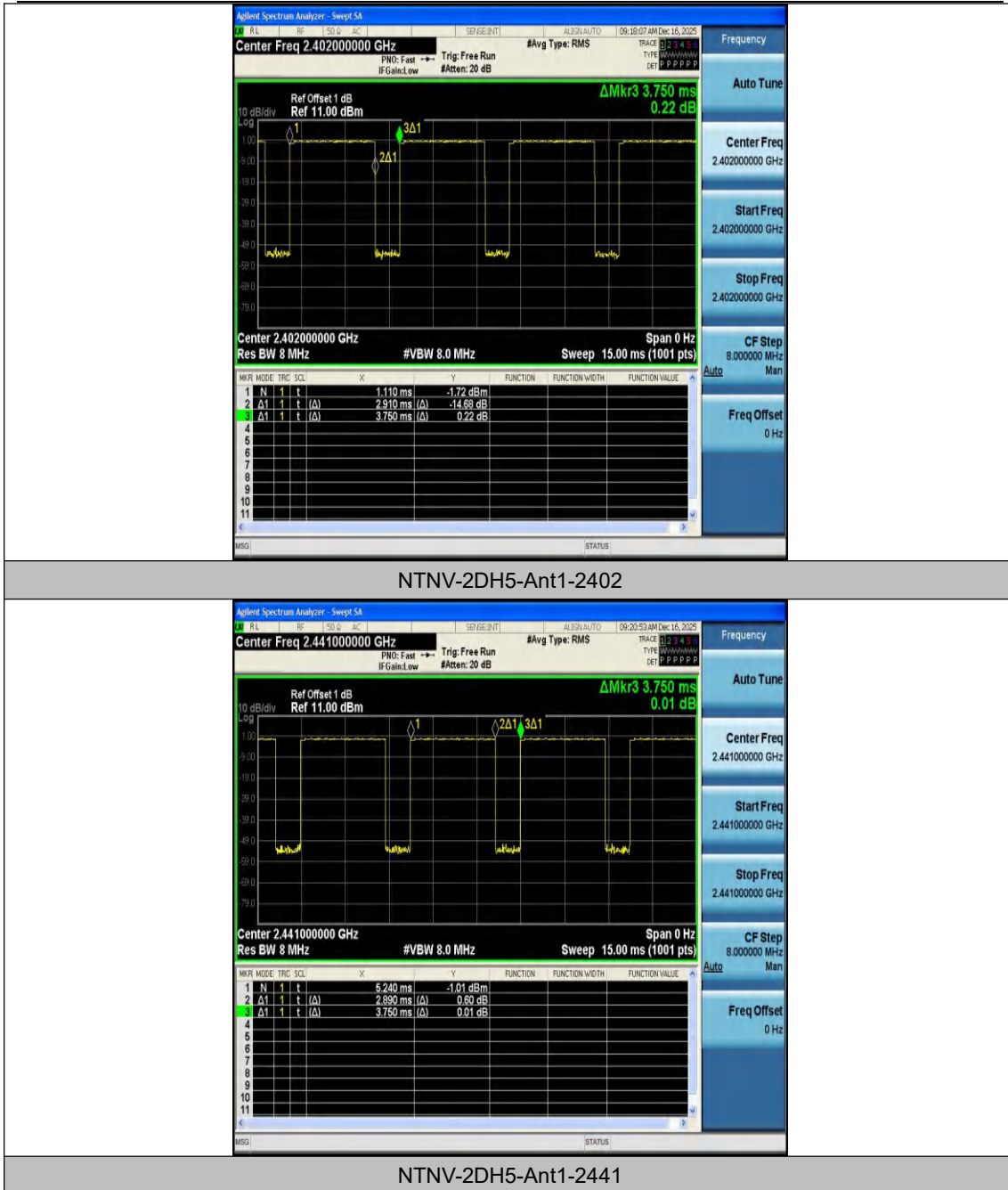
Test Result

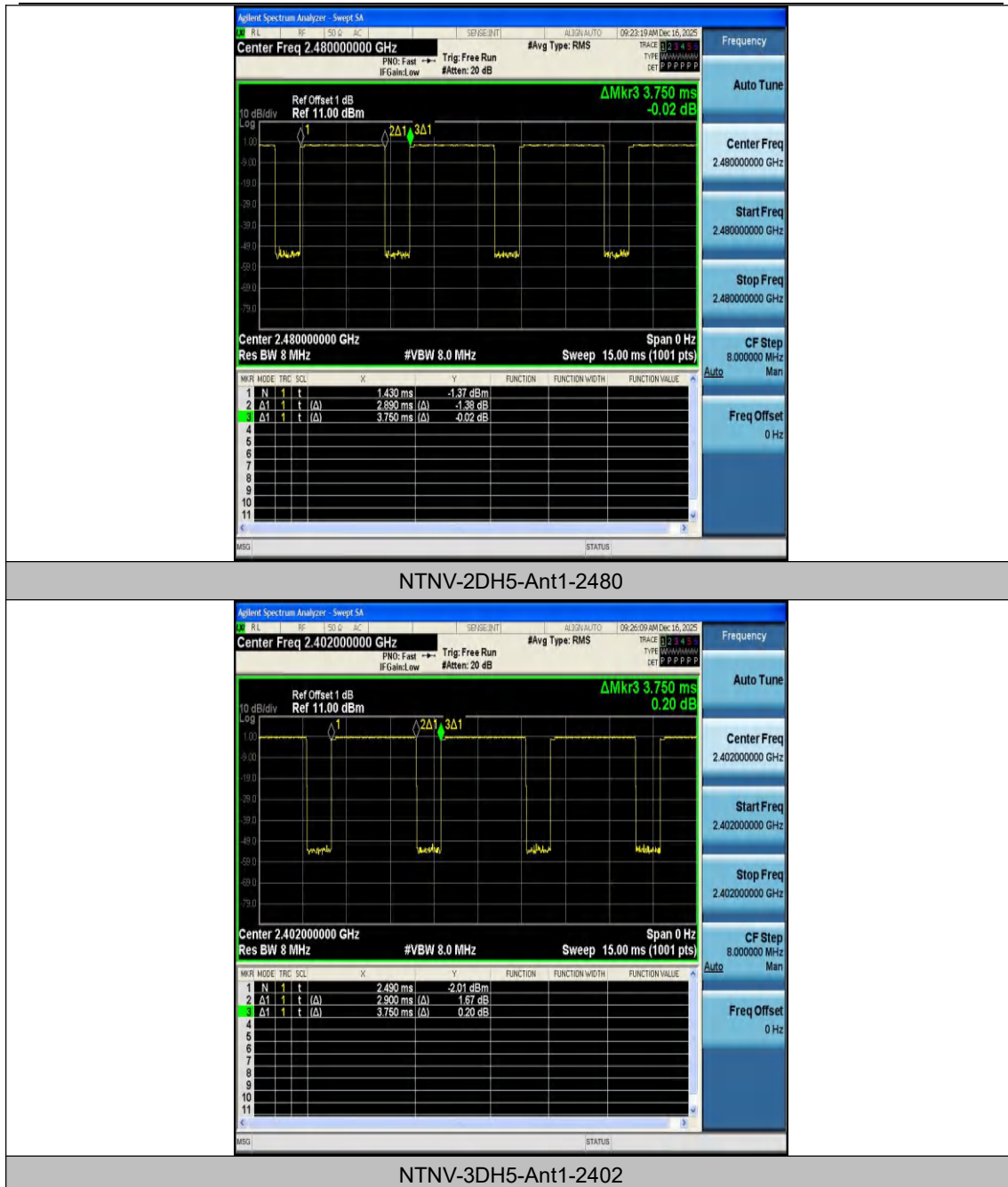
Test Mode	Antenna	Frequency[MHz]	ON Time [ms]	Period [ms]	Duty Cycle [%]	Duty Cycle Factor[dB]
DH5	Ant1	2402	2.88	3.75	76.80	1.15
DH5	Ant1	2441	2.90	3.75	77.33	1.12
DH5	Ant1	2480	2.89	3.75	77.07	1.13
2DH5	Ant1	2402	2.91	3.75	77.60	1.10
2DH5	Ant1	2441	2.89	3.75	77.07	1.13
2DH5	Ant1	2480	2.89	3.75	77.07	1.13
3DH5	Ant1	2402	2.90	3.75	77.33	1.12
3DH5	Ant1	2441	2.90	3.75	77.33	1.12
3DH5	Ant1	2480	2.89	3.75	77.07	1.13

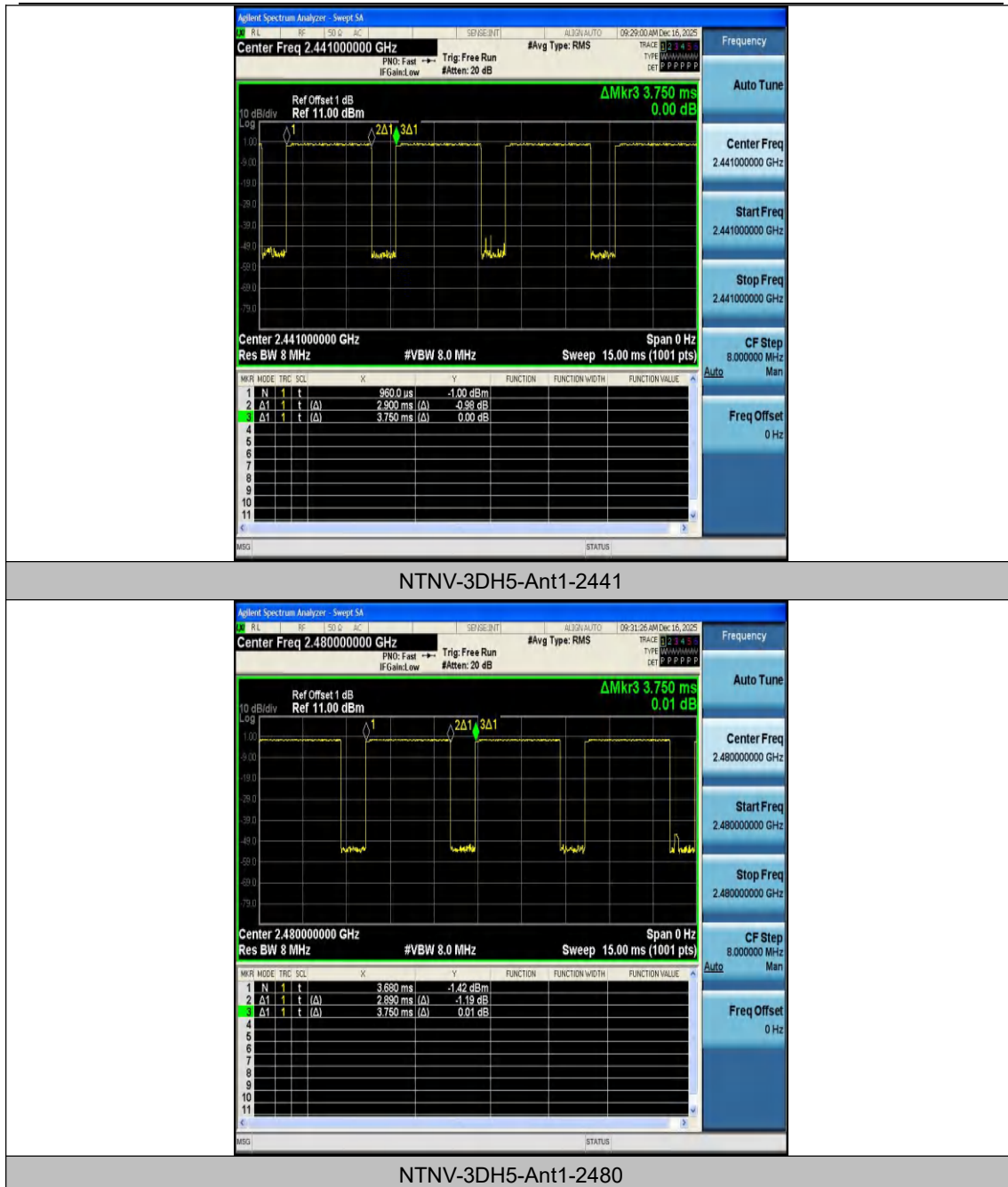
Test Graphs











---End---